

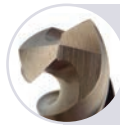
FERRAMENTAS EM BLISTER




BROCAS CABO CILINDRICO RETIFICADAS DIN 338 EM BLISTER E CAPA

Expositores

Cinza


 Ref. BC5B
 Ref. BC5F

DIN
338
HSSCo
5%

DOURADO
120
 Kg/mm²

BC5B			
Ø mm	L ₁ x L ₂ mm		€
1,00	34 x 12	2	6,70
1,50	40 x 18	2	6,13
2,00	49 x 24	2	6,54
2,50	57 x 30	2	6,39
3,00	61 x 33	2	6,20
3,30	65 x 36	2	6,96
3,50	70 x 39	2	7,12
4,00	75 x 43	2	7,37
4,20	75 x 43	1	4,53
4,50	80 x 47	1	4,82
5,00	86 x 52	1	4,83
5,50	93 x 57	1	5,89
5,75	93 x 57	1	6,50
6,00	93 x 57	1	6,25
6,50	101 x 63	1	7,33
6,75	109 x 69	1	8,41
7,00	109 x 69	1	8,01

Blister: 190x60 mm.

BC5B			
Ø mm	L ₁ x L ₂ mm		€
7,50	109 x 69	1	8,82
8,00	117 x 75	1	9,82
8,50	117 x 75	1	10,69
9,00	125 x 81	1	12,96
9,50	125 x 81	1	13,05
10,00	133 x 87	1	14,54
10,25	133 x 87	1	23,80
10,50	133 x 87	1	20,71
11,00	142 x 94	1	22,90
11,50	142 x 94	1	26,36
12,00	151 x 101	1	28,03
12,50	151 x 101	1	33,93
13,00	151 x 101	1	34,37
13,50	160 x 108	1	37,71
14,00	160 x 108	1	37,71

Blister: 230x60 mm.

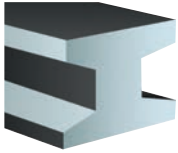


BC5F			
Ø mm	L ₁ x L ₂ mm		€
1,00	34 x 12	2	5,81
1,50	40 x 18	2	5,45
2,00	49 x 24	2	5,81
2,50	57 x 30	2	5,52
3,00	61 x 33	2	5,31
3,25	65 x 36	2	6,26
3,50	70 x 39	2	6,24
4,00	75 x 43	2	6,57
4,25	75 x 43	1	3,76
4,50	80 x 47	1	3,86
5,00	86 x 52	1	3,94
5,25	86 x 52	1	4,83
5,50	93 x 57	1	5,04
5,75	93 x 57	1	5,67

BC5F			
Ø mm	L ₁ x L ₂ mm		€
6,00	93 x 57	1	5,39
6,50	101 x 63	1	6,24
6,75	109 x 69	1	7,31
7,00	109 x 69	1	6,86
7,50	109 x 69	1	7,23
8,00	117 x 75	1	8,54
8,50	117 x 75	1	8,83
9,00	125 x 81	1	11,46
9,50	125 x 81	1	11,79
10,00	133 x 87	1	12,86
10,50	133 x 87	1	18,55
11,00	142 x 94	1	20,12
12,00	151 x 101	1	25,37
13,00	151 x 101	1	32,00

R.P.M. recomendadas:

METAL	Ø 2	Ø 4	Ø 6	Ø 8	Ø 10	Ø 12
Brando	4000	2000	1300	1000	800	700
Meio	3200	1600	1000	800	650	550
Duro	2300	1100	1700	600	475	350



BROCAS CABO CILINDRICO RETIFICADAS DIN 338 EM BLISTER E CAPA



Ref. BC02B
Ref. BC02F

DIN 338

HSS-G Plus



OX DOURADO

70 Kg/mm²

BC02B				
Ø mm	L ₁ x L ₂ mm		€	
1,00	34 x 12	2	5,81	
1,50	40 x 18	2	5,52	
2,00	49 x 24	2	4,42	
2,50	57 x 30	2	4,42	
3,00	61 x 33	2	4,48	
3,30	65 x 36	2	5,00	
3,50	70 x 39	2	4,40	
4,00	75 x 43	2	5,02	
4,20	75 x 43	1	3,32	
4,50	80 x 47	1	3,36	
5,00	86 x 52	1	3,50	
5,50	93 x 57	1	4,36	
5,75	93 x 57	1	5,52	
6,00	93 x 57	1	4,36	
6,50	101 x 63	1	5,18	
6,75	109 x 69	1	6,24	
7,00	109 x 69	1	6,24	

Blister: 190x60 mm.

BC02B				
Ø mm	L ₁ x L ₂ mm		€	
7,50	109 x 69	1	6,20	
8,00	117 x 75	1	6,70	
8,50	117 x 75	1	7,86	
9,00	125 x 81	1	8,77	
9,50	125 x 81	1	9,36	
10,00	133 x 87	1	10,36	
10,25	133 x 87	1	14,86	
10,50	133 x 87	1	12,08	
11,00	142 x 94	1	13,81	
11,50	142 x 94	1	14,66	
12,00	151 x 101	1	16,19	
12,50	151 x 101	1	17,44	
13,00	151 x 101	1	18,33	
13,50	160 x 108	1	25,08	
14,00	160 x 108	1	28,12	

Blister: 230x60 mm.



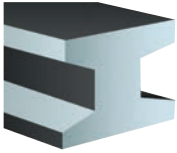
BC02F				
Ø mm	L ₁ x L ₂ mm		€	
1,00	34 x 12	2	4,72	
1,50	40 x 18	2	4,37	
2,00	49 x 24	2	3,61	
2,50	57 x 30	2	3,96	
3,00	61 x 33	2	3,43	
3,25	65 x 36	2	3,76	
3,50	70 x 39	2	3,76	
4,00	75 x 43	2	4,21	
4,25	75 x 43	1	2,39	
4,50	80 x 47	1	2,46	
5,00	86 x 52	1	2,64	
5,25	86 x 52	1	3,56	
5,50	93 x 57	1	3,46	
5,75	93 x 57	1	4,62	

BC02F				
Ø mm	L ₁ x L ₂ mm		€	
6,00	93 x 57	1	3,66	
6,50	101 x 63	1	4,20	
6,75	109 x 69	1	5,19	
7,00	109 x 69	1	4,98	
7,50	109 x 69	1	5,21	
8,00	117 x 75	1	6,02	
8,50	117 x 75	1	6,64	
9,00	125 x 81	1	8,10	
9,50	125 x 81	1	8,78	
10,00	133 x 87	1	9,51	
10,50	133 x 87	1	11,57	
11,00	142 x 94	1	13,34	
12,00	151 x 101	1	15,71	
13,00	151 x 101	1	17,97	

R.P.M. recomendadas:

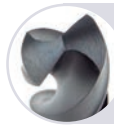
METAL	Ø 2	Ø 4	Ø 6	Ø 8	Ø 10	Ø 12
Brando	3000	1600	950	800	630	450
Meio	2200	1200	725	625	490	375
Duro	1400	800	500	450	350	300

Sob demanda, podemos dotar aos nossos blisters dum sistema anti-furto por eletromagnetismo com um custo adicional do 0,07 € pelo blister, que pode ser colocado em todas as peças ou aleatoriamente.


BROCAS CABO CILINDRICO RETIFICADAS DIN 338 EM BLISTER E CAPA

Expositores

Cinza


 Ref. BC2B
 Ref. BC2F

**DIN
338**
HSS

OX


BC2B				
Ø mm	L ₁ x L ₂ mm		€	
1,00	34 x 12	2	4,85	
1,50	40 x 18	2	4,63	
2,00	49 x 24	2	4,26	
2,50	57 x 30	2	4,17	
3,00	61 x 33	2	4,17	
3,30	65 x 36	2	4,73	
3,50	70 x 39	2	4,13	
4,00	75 x 43	2	4,38	
4,20	75 x 43	1	3,11	
4,50	80 x 47	1	3,17	
5,00	86 x 52	1	3,26	
5,50	93 x 57	1	4,11	
5,75	93 x 57	1	4,83	
6,00	93 x 57	1	4,00	
6,50	101 x 63	1	4,44	
6,75	109 x 69	1	5,71	
7,00	109 x 69	1	5,31	

Blister: 190x60 mm.

BC2B				
Ø mm	L ₁ x L ₂ mm		€	
7,50	109 x 69	1	5,61	
8,00	117 x 75	1	6,20	
8,50	117 x 75	1	6,47	
9,00	125 x 81	1	7,98	
9,50	125 x 81	1	8,35	
10,00	133 x 87	1	9,43	
10,25	133 x 87	1	12,17	
10,50	133 x 87	1	11,24	
11,00	142 x 94	1	12,51	
11,50	142 x 94	1	13,40	
12,00	151 x 101	1	14,74	
12,50	151 x 101	1	15,98	
13,00	151 x 101	1	16,55	
13,50	160 x 108	1	23,42	
14,00	160 x 108	1	25,93	

Blister: 230x60 mm.



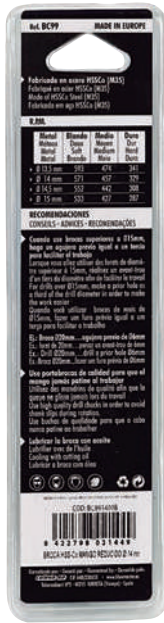
BC2F				
Ø mm	L ₁ x L ₂ mm		€	
1,00	34 x 12	2	4,06	
1,50	40 x 18	2	3,37	
2,00	49 x 24	2	3,10	
2,50	57 x 30	2	3,33	
3,00	61 x 33	2	3,03	
3,25	65 x 36	2	3,46	
3,50	70 x 39	2	3,34	
4,00	75 x 43	2	3,63	
4,25	75 x 43	1	2,17	
4,50	80 x 47	1	2,30	
5,00	86 x 52	1	2,38	
5,25	86 x 52	1	3,22	
5,50	93 x 57	1	3,09	
5,75	93 x 57	1	4,16	

BC2F				
Ø mm	L ₁ x L ₂ mm		€	
6,00	93 x 57	1	3,20	
6,50	101 x 63	1	3,55	
6,75	109 x 69	1	4,58	
7,00	109 x 69	1	4,41	
7,50	109 x 69	1	4,56	
8,00	117 x 75	1	5,28	
8,50	117 x 75	1	5,61	
9,00	125 x 81	1	7,25	
9,50	125 x 81	1	7,90	
10,00	133 x 87	1	8,28	
10,50	133 x 87	1	10,29	
11,00	142 x 94	1	11,79	
12,00	151 x 101	1	14,09	
13,00	151 x 101	1	16,23	

R.P.M. recomendadas:

METAL	Ø 2	Ø 4	Ø 6	Ø 8	Ø 10	Ø 12
Brando	3000	1600	950	800	630	450
Meio	2200	1200	725	625	490	375
Duro	1400	800	500	450	350	300

BROCAS CABO CILINDRICO REDUZIDO RETIFICADAS EM BLISTER E EMBALAGEM TELESCÓPICA



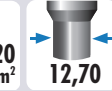
Ref. BC99B
Ref. BC99P

DIN 338

HSSCo 5%



DOURADO



BC99B				
Ø mm	L ₁ x L ₂ mm		€	
13,50	160 x 108	1	47,92	
14,00	160 x 108	1	52,39	
14,50	169 x 114	1	66,95	
15,00	169 x 114	1	69,91	
Blister: 230x60 mm.				

BC99B				
Ø mm	L ₁ x L ₂ mm		€	
15,50	178 x 120	1	78,02	
16,00	178 x 120	1	80,38	
16,50	184 x 125	1	91,65	
17,00	184 x 125	1	92,25	
17,50	191 x 130	1	101,53	
18,00	191 x 130	1	111,26	
18,50	198 x 135	1	124,14	
19,00	198 x 135	1	123,07	
19,50	205 x 140	1	136,36	
20,00	205 x 140	1	146,09	
Blister: 282x60 mm.				



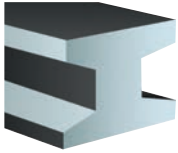
Ø 12,70 mm Cabo reduzido

BC99P				
	Ø mm	L ₁ x L ₂ mm		€
14 x 169 mm	13,50	160 x 108	1	47,92
	14,00	160 x 108	1	52,39
	14,50	169 x 114	1	66,95
Quadro pack: 20x205 mm	15,00	169 x 114	1	69,91
	15,50	178 x 120	1	78,02
	16,00	178 x 120	1	80,38
	16,50	184 x 125	1	91,65
	17,00	184 x 125	1	92,25
	17,50	191 x 130	1	101,53
	18,00	191 x 130	1	111,26
	18,50	198 x 135	1	124,14
	19,00	198 x 135	1	123,07
19,50	205 x 140	1	136,36	
20,00	205 x 140	1	146,09	

R.P.M. recomendadas:

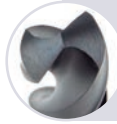
METAL	Ø 14	Ø 15	Ø 16	Ø 18	Ø 20
Brando	571	533	500	444	400
Meio	457	427	400	356	320
Duro	329	287	271	256	230

Sob demanda, podemos dotar aos nossos blisters dum sistema anti-furto por eletromagnetismo com um custo adicional do 0,07 € pelo blister, que pode ser colocado em todas as peças ou aleatoriamente.


BROCAS CABO CILINDRICO REDUZIDO RETIFICADAS EM BLISTER E EMBALAGEM TELESCÓPICA

Expositores

Cinza


 Ref. BC9B
 Ref. BC9P

**DIN
338**
HSS

OX

**70
Kg/mm²**

12,70

BC9B			
Ø mm	L ₁ x L ₂ mm		€
13,50	160 x 108	1	33,13
14,00	160 x 108	1	35,04
14,50	169 x 114	1	36,87

Blister: 230x60 mm.

BC9B			
Ø mm	L ₁ x L ₂ mm		€
15,00	169 x 114	1	37,17
15,50	178 x 120	1	42,66
16,00	178 x 120	1	44,15
16,50	184 x 125	1	49,21
17,00	184 x 125	1	49,34
17,50	191 x 130	1	53,10
18,00	191 x 130	1	55,85
18,50	198 x 135	1	60,72
19,00	198 x 135	1	60,72
19,50	205 x 140	1	70,98
20,00	205 x 140	1	78,45

Blister: 282x60 mm.



Ø 12,70 mm. Cabo reduzido

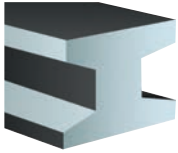
BC9P			
Ø mm	L ₁ x L ₂ mm		€
14x169mm			
13,50	160 x 108	1	30,99
14,00	160 x 108	1	32,91
14,50	169 x 114	1	35,59
Quadro pack: 20x205 mm			
15,00	169 x 114	1	35,93
15,50	178 x 120	1	41,49
16,00	178 x 120	1	43,00
16,50	184 x 125	1	48,17
17,00	184 x 125	1	48,17
17,50	191 x 130	1	54,81
18,00	191 x 130	1	57,78
18,50	198 x 135	1	60,58
19,00	198 x 135	1	60,58
19,50	205 x 140	1	69,20
20,00	205 x 140	1	74,99
20,50	205 x 140	1	86,99
21,00	205 x 140	1	79,42

BC9P			
Ø mm	L ₁ x L ₂ mm		€
Quadro pack: 26x258 mm			
21,50	209 x 140	1	92,36
22,00	209 x 140	1	87,80
22,50	214 x 140	1	93,91
23,00	214 x 140	1	96,15
23,50	220 x 145	1	106,73
24,00	220 x 145	1	105,54
24,50	225 x 150	1	113,71
25,00	225 x 150	1	115,41
26,00	243 x 157	1	138,44
32x273 mm			
27,00	243 x 157	1	148,69
28,00	253 x 167	1	153,84
29,00	253 x 167	1	180,59
30,00	258 x 171	1	189,83

R.P.M. recomendadas:

METAL	Ø 14	Ø 15	Ø 16	Ø 18	Ø 20
Brando	429	400	375	333	300
Meio	314	293	275	244	220
Duro	200	200	175	156	140

BROCAS CABO CILINDRICO RETIFICADAS DIN 338 EM BLISTER E CAPA



Ref. BC18B
Ref. BC18F

DIN 338

HSS



TiN



BC18B			
Ø mm	L ₁ x L ₂ mm		€
1,00	34 x 12	2	6,25
1,50	40 x 18	2	5,36
2,00	49 x 24	2	5,39
2,50	57 x 30	2	5,85
3,00	61 x 33	2	5,45
3,30	65 x 36	2	6,62
3,50	70 x 39	2	6,27
4,00	75 x 43	2	6,79
4,20	75 x 43	1	4,00
4,50	80 x 47	1	3,95
5,00	86 x 52	1	3,97
5,50	93 x 57	1	4,60
5,75	93 x 57	1	5,27
6,00	93 x 57	1	4,54
6,50	101 x 63	1	7,74
6,75	109 x 69	1	8,69
7,00	109 x 69	1	8,10

Blister: 190x60 mm.

BC18B			
Ø mm	L ₁ x L ₂ mm		€
7,50	109 x 69	1	8,85
8,00	117 x 75	1	9,14
8,50	117 x 75	1	10,06
9,00	125 x 81	1	10,96
9,50	125 x 81	1	11,54
10,00	133 x 87	1	11,83
10,25	133 x 87	1	20,39
10,50	133 x 87	1	18,98
11,00	142 x 94	1	19,99
11,50	142 x 94	1	20,52
12,00	151 x 101	1	21,39
12,50	151 x 101	1	25,14
13,00	151 x 101	1	26,25
13,50	160 x 108	1	31,30
14,00	160 x 108	1	32,33

Blister: 230x60 mm.



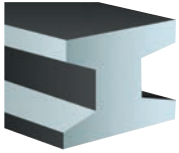
BC18F			
Ø mm	L ₁ x L ₂ mm		€
1,00	34 x 12	2	5,70
1,50	40 x 18	2	4,82
2,00	49 x 24	2	4,73
2,50	57 x 30	2	5,23
3,00	61 x 33	2	4,73
3,25	65 x 36	2	5,67
3,50	70 x 39	2	5,50
4,00	75 x 43	2	5,97
4,25	75 x 43	1	3,15
4,50	80 x 47	1	3,11
5,00	86 x 52	1	3,15
5,25	86 x 52	1	3,82
5,50	93 x 57	1	3,74
5,75	93 x 57	1	4,57

BC18F			
Ø mm	L ₁ x L ₂ mm		€
6,00	93 x 57	1	3,77
6,50	101 x 63	1	6,99
6,75	109 x 69	1	7,65
7,00	109 x 69	1	7,48
7,50	109 x 69	1	7,84
8,00	117 x 75	1	8,28
8,50	117 x 75	1	9,22
9,00	125 x 81	1	10,10
9,50	125 x 81	1	11,02
10,00	133 x 87	1	11,32
10,50	133 x 87	1	18,33
11,00	142 x 94	1	19,33
12,00	151 x 101	1	20,71
13,00	151 x 101	1	25,57

R.P.M. recomendadas:

METAL	Ø 2	Ø 4	Ø 6	Ø 8	Ø 10	Ø 12
Brando	4500	2400	1425	1200	950	675
Meio	3300	1800	1100	950	735	560
Duro	2100	1200	750	675	525	450

Sob demanda, podemos dotar aos nossos blisters dum sistema anti-furto por eletromagnetismo com um custo adicional do 0,07 € pelo blister, que pode ser colocado em todas as peças ou aleatoriamente.


BROCAS CABO CILINDRICO RETIFICADAS DIN 338 EM BLISTER E CAPA


Ref. BC95B

**DIN
338**
**HSSCo
5%**

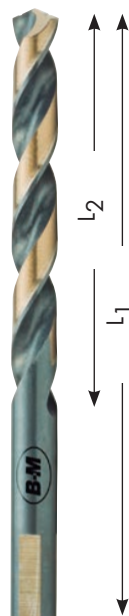
**OX
DOURADO**
INOX


BC95B			
Ø mm	L ₁ x L ₂ mm		€
1,00	34 x 12	2	8,16
1,50	40 x 18	2	7,77
2,00	49 x 24	2	7,77
2,50	57 x 30	2	7,05
3,00	61 x 33	2	6,91
3,20	65 x 36	2	7,10
3,30	65 x 36	2	8,15
3,50	70 x 39	2	8,07
4,00	75 x 43	2	8,69
4,20	75 x 43	1	4,86
4,50	80 x 47	1	4,86
5,00	86 x 52	1	5,21
5,50	93 x 57	1	6,58
6,00	93 x 57	1	7,01
6,50	101 x 63	1	7,91
6,80	109 x 69	1	9,06

Blister: 190x60 mm.

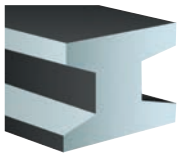
BC95B			
Ø mm	L ₁ x L ₂ mm		€
7,00	109 x 69	1	8,62
7,50	109 x 69	1	9,19
8,00	117 x 75	1	10,77
8,50	117 x 75	1	11,23
9,00	125 x 81	1	14,31
9,50	125 x 81	1	16,48
10,00	133 x 87	1	17,78
10,20	133 x 87	1	23,04
10,50	133 x 87	1	23,04
11,00	142 x 94	1	25,03
11,50	142 x 94	1	28,24
12,00	151 x 101	1	30,00
12,50	151 x 101	1	35,78
13,00	151 x 101	1	36,27

Blister: 230x60 mm.

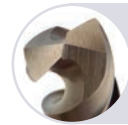


BC95F			
Ø mm	L ₁ x L ₂ mm		€
1,00	34 x 12	2	6,94
1,50	40 x 18	2	6,63
2,00	49 x 24	2	6,63
2,50	57 x 30	2	6,22
3,00	61 x 33	2	6,08
3,20	65 x 36	2	7,24
3,30	65 x 36	2	7,46
3,50	70 x 39	2	7,32
4,00	75 x 43	2	7,99
4,20	75 x 43	1	4,45
4,50	80 x 47	1	4,45
5,00	86 x 52	1	4,75
5,50	93 x 57	1	6,02
6,00	93 x 57	1	6,40
6,50	101 x 63	1	7,47
6,80	109 x 69	1	8,69

BC95F			
Ø mm	L ₁ x L ₂ mm		€
7,00	109 x 69	1	8,18
7,50	109 x 69	1	8,67
8,00	117 x 75	1	10,17
8,50	117 x 75	1	10,61
9,00	125 x 81	1	13,52
9,50	125 x 81	1	14,00
10,00	133 x 87	1	15,40
10,20	133 x 87	1	20,78
10,50	133 x 87	1	20,79
11,00	142 x 94	1	22,95
11,50	142 x 94	1	26,42
12,00	151 x 101	1	28,32
12,50	151 x 101	1	34,56
13,00	151 x 101	1	35,07



BROCAS CABO CILINDRICO RETIFICADAS EM CAPA



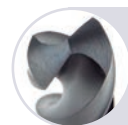
DIN 338 **HSSCo 8%** **135°** **30° "N"** **DOURADO** **120 Kg/mm²**

R.P.M. recomendadas:

METAL	Brando	Meio	Duro
Ø 2 mm	4000	3200	2300
Ø 4 mm	2000	1600	1100
Ø 6 mm	1300	1000	1700
Ø 8 mm	1000	800	600
Ø 10 mm	800	650	475
Ø 12 mm	700	550	350

BC58F			
Ø mm	L ₁ x L ₂ mm		€
1,00	34 x 12	2	8,62
1,50	40 x 18	2	8,19
2,00	49 x 24	2	8,19
2,50	57 x 30	2	8,19
3,00	61 x 33	2	7,93
3,25	65 x 36	2	9,63
3,50	70 x 39	2	9,47
4,00	75 x 43	2	10,23
4,25	75 x 43	1	5,90
4,50	80 x 47	1	5,90
5,00	86 x 52	1	6,39
5,25	86 x 52	1	7,42
5,50	93 x 57	1	7,94
5,75	93 x 57	1	8,79

BC58F			
Ø mm	L ₁ x L ₂ mm		€
6,00	93 x 57	1	8,41
6,50	101 x 63	1	9,74
6,75	109 x 69	1	11,37
7,00	109 x 69	1	10,23
7,50	109 x 69	1	10,89
8,00	117 x 75	1	12,66
8,50	117 x 75	1	13,13
9,00	125 x 81	1	17,00
9,50	125 x 81	1	17,54
10,00	133 x 87	1	19,28
10,50	133 x 87	1	27,90
11,00	142 x 94	1	30,67
12,00	151 x 101	1	41,69
13,00	151 x 101	1	52,78



DIN 340 **HSS** **118°** **30° "N"** **OX** **70 Kg/mm²**

R.P.M. recomendadas:

METAL	Brando	Meio	Duro
Ø 2 mm	3000	2200	1400
Ø 4 mm	1600	1200	800
Ø 6 mm	950	725	500
Ø 8 mm	800	625	450
Ø 10 mm	630	490	350
Ø 12 mm	450	375	300

BC4F			
Ø mm	L ₁ x L ₂ mm		€
1,00	56 x 33	1	6,16
1,50	70 x 45	1	4,40
2,00	85 x 56	1	3,08
2,50	95 x 62	1	3,38
3,00	100 x 66	1	3,10
3,25	106 x 69	1	3,25
3,50	112 x 73	1	3,12
4,00	119 x 78	1	3,38
4,25	119 x 78	1	4,42
4,50	126 x 82	1	4,14
5,00	132 x 87	1	4,38
5,25	132 x 87	1	7,10
5,50	139 x 91	1	5,79
5,75	139 x 91	1	7,57

BC4F			
Ø mm	L ₁ x L ₂ mm		€
6,00	139 x 91	1	5,29
6,50	148 x 97	1	6,87
6,75	156 x 102	1	8,41
7,00	156 x 102	1	8,08
7,50	156 x 102	1	8,60
8,00	165 x 109	1	9,32
8,50	165 x 109	1	10,66
9,00	175 x 115	1	11,58
9,50	175 x 115	1	11,63
10,00	184 x 121	1	12,85
10,50	184 x 121	1	17,12
11,00	195 x 128	1	19,00
12,00	205 x 134	1	21,28
13,00	205 x 134	1	25,42

Sob demanda, podemos dotar aos nossos blisters dum sistema anti-furto por eletromagnetismo com um custo adicional do 0,07 € pelo blister, que pode ser colocado em todas as peças ou aleatoriamente.


BROCAS XTURBO COM PONTA GUIA EN BLISTER E CAPA


Ref. BTX

DIN
338
HSSCo
5%
TOL
H8
120
Kg/mm²
Ø ≥ 3
135°
38°
115°
INOX
TURBO


BTXB			
Ø mm	L ₁ x L ₂ mm		€
3,00	61 x 33	1	2,67
3,20	65 x 36	1	3,28
3,30	65 x 36	1	3,28
3,50	70 x 39	1	3,27
4,00	75 x 43	1	3,30
4,20	75 x 43	1	3,93
4,50	80 x 47	1	3,89
5,00	86 x 52	1	5,03
5,50	93 x 57	1	6,38
6,00	93 x 57	1	6,79
6,50	101 x 63	1	7,93
6,80	109 x 69	1	9,23

Blister: 190x60 mm.

BTXB			
Ø mm	L ₁ x L ₂ mm		€
7,00	109 x 69	1	8,67
7,50	109 x 69	1	9,20
8,00	117 x 75	1	10,79
8,50	117 x 75	1	11,25
9,00	125 x 81	1	13,77
9,50	125 x 81	1	14,49
10,00	133 x 87	1	15,94
10,20	133 x 87	1	20,64
10,50	133 x 87	1	20,65
11,00	142 x 94	1	22,79
11,50	142 x 94	1	25,56
12,00	151 x 101	1	27,40
12,50	151 x 101	1	34,03
13,00	151 x 101	1	34,53

Blister: 230x60 mm.

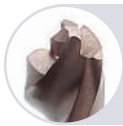


BTXF			
Ø mm	L ₁ x L ₂ mm		€
3,00	61 x 33	1	2,19
3,20	65 x 36	1	2,70
3,30	65 x 36	1	2,70
3,50	70 x 39	1	2,69
4,00	75 x 43	1	2,71
4,20	75 x 43	1	3,24
4,50	80 x 47	1	3,33
5,00	86 x 52	1	4,48
5,50	93 x 57	1	5,68
6,00	93 x 57	1	6,04
6,50	101 x 63	1	7,05
6,80	109 x 69	1	8,21

BTXF			
Ø mm	L ₁ x L ₂ mm		€
7,00	109 x 69	1	7,71
7,50	109 x 69	1	8,19
8,00	117 x 75	1	9,59
8,50	117 x 75	1	10,00
9,00	125 x 81	1	12,74
9,50	125 x 81	1	13,20
10,00	133 x 87	1	14,52
10,20	133 x 87	1	19,60
10,50	133 x 87	1	19,61
11,00	142 x 94	1	21,64
11,50	142 x 94	1	24,92
12,00	151 x 101	1	26,71
12,50	151 x 101	1	32,59
13,00	151 x 101	1	33,08



BROCAS TTURBO COM PONTA GUIA EN BLISTER E CAPA



Ref. TTX

DIN 338

HSS

TOL H8

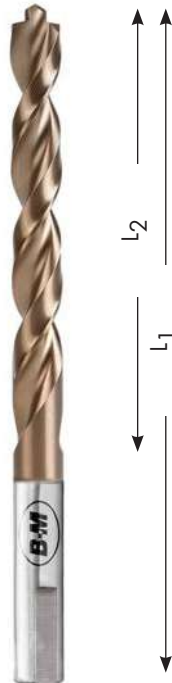


TTXB			
Ø mm	L ₁ x L ₂ mm		€
3,00	61 x 33	1	2,54
3,20	65 x 36	1	3,12
3,30	65 x 36	1	3,12
3,50	70 x 39	1	3,11
4,00	75 x 43	1	3,13
4,20	75 x 43	1	3,74
4,50	80 x 47	1	3,69
5,00	86 x 52	1	4,78
5,50	93 x 57	1	6,07
6,00	93 x 57	1	6,45
6,50	101 x 63	1	7,53
6,80	109 x 69	1	8,77

Blister: 190x60 mm.

TTXB			
Ø mm	L ₁ x L ₂ mm		€
7,00	109 x 69	1	8,24
7,50	109 x 69	1	8,75
8,00	117 x 75	1	10,25
8,50	117 x 75	1	10,69
9,00	125 x 81	1	13,08
9,50	125 x 81	1	13,77
10,00	133 x 87	1	15,14
10,20	133 x 87	1	19,60
10,50	133 x 87	1	19,61
11,00	142 x 94	1	21,65
11,50	142 x 94	1	24,28
12,00	151 x 101	1	26,03
12,50	151 x 101	1	32,34
13,00	151 x 101	1	32,80

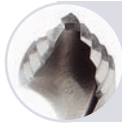
Blister: 230x60 mm.



TTXF			
Ø mm	L ₁ x L ₂ mm		€
3,00	61 x 33	1	1,98
3,20	65 x 36	1	2,43
3,30	65 x 36	1	2,43
3,50	70 x 39	1	2,42
4,00	75 x 43	1	2,44
4,20	75 x 43	1	2,92
4,50	80 x 47	1	2,99
5,00	86 x 52	1	4,03
5,50	93 x 57	1	5,11
6,00	93 x 57	1	5,43
6,50	101 x 63	1	6,34
6,80	109 x 69	1	7,39

TTXF			
Ø mm	L ₁ x L ₂ mm		€
7,00	109 x 69	1	6,93
7,50	109 x 69	1	7,37
8,00	117 x 75	1	8,63
8,50	117 x 75	1	9,01
9,00	125 x 81	1	11,47
9,50	125 x 81	1	11,88
10,00	133 x 87	1	13,07
10,20	133 x 87	1	17,64
10,50	133 x 87	1	17,65
11,00	142 x 94	1	19,48
11,50	142 x 94	1	22,42
12,00	151 x 101	1	24,04
12,50	151 x 101	1	29,33
13,00	151 x 101	1	29,76

Sob demanda, podemos dotar aos nossos blisters dum sistema anti-furto por eletromagnetismo com um custo adicional do 0,07 € pelo blister, que pode ser colocado em todas as peças ou aleatoriamente.


BROCA STEP CUT FÁCIL PERFURAÇÃO EM SUPERFÍCIES CURVADAS E INSTÁVEIS

 Ref. TK02B
 Ref. TK02F

**DIN
338**
HSS

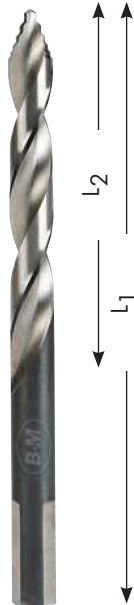
STEP CUT


				TK02B	
Ø mm	L ₁ x L ₂ mm		€		
1,00	34 x 12	1	4,98		
1,50	40 x 18	1	5,09		
2,00	49 x 24	1	5,23		
2,50	57 x 30	1	5,82		
3,00	61 x 33	1	6,02		
3,50	70 x 39	1	6,87		
4,00	75 x 43	1	7,83		
4,50	80 x 47	1	8,44		
5,00	76 x 52	1	9,42		
5,50	93 x 57	1	9,87		
6,00	93 x 57	1	10,59		
6,50	101 x 63	1	12,06		
7,00	109 x 69	1	13,54		

Blister: 190x60 mm.

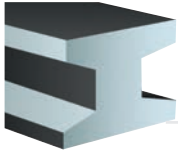
				TK02B	
Ø mm	L ₁ x L ₂ mm		€		
7,50	109 x 69	1	15,53		
8,00	117 x 75	1	16,42		
8,50	117 x 75	1	19,07		
9,00	125 x 81	1	20,83		
9,50	125 x 81	1	22,31		
10,00	133 x 87	1	23,63		
10,50	133 x 87	1	26,09		
11,00	142 x 94	1	28,53		
11,50	142 x 94	1	31,90		
12,00	151 x 101	1	34,45		
12,50	151 x 101	1	37,18		
13,00	151 x 101	1	39,73		

Blister: 230x60 mm.



				TK02F	
Ø mm	L ₁ x L ₂ mm		€		
1,00	34 x 12	1	4,07		
1,50	40 x 18	1	4,18		
2,00	49 x 24	1	4,32		
2,50	57 x 30	1	4,91		
3,00	61 x 33	1	5,10		
3,50	70 x 39	1	5,96		
4,00	75 x 43	1	6,92		
4,50	80 x 47	1	7,55		
5,00	76 x 52	1	8,75		
5,50	93 x 57	1	9,20		
6,00	93 x 57	1	9,93		
6,50	101 x 63	1	11,39		

				TK02F	
Ø mm	L ₁ x L ₂ mm		€		
7,00	109 x 69	1	12,87		
7,50	109 x 69	1	14,86		
8,00	117 x 75	1	15,53		
8,50	117 x 75	1	18,19		
9,00	125 x 81	1	19,94		
9,50	125 x 81	1	21,42		
10,00	133 x 87	1	22,74		
10,50	133 x 87	1	24,65		
11,00	142 x 94	1	27,42		
11,50	133 x 87	1	29,68		
12,00	151 x 101	1	32,23		
12,50	151 x 101	1	34,74		
13,00	151 x 101	1	37,30		



BROCA STEP CUT FÁCIL PERFURAÇÃO EM SUPERFÍCIES CURVADAS E INSTÁVEIS



Ref. TK05B
Ref. TK05F

DIN 338

HSSCo 5%



STEP CUT

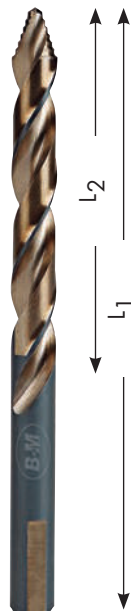


TK05B			
Ø mm	L ₁ x L ₂ mm		€
1,00	34 x 12	1	6,14
1,50	40 x 18	1	6,29
2,00	49 x 24	1	6,48
2,50	57 x 30	1	7,27
3,00	61 x 33	1	7,55
3,50	70 x 39	1	8,69
4,00	75 x 43	1	9,99
4,50	80 x 47	1	10,81
5,00	76 x 52	1	12,09
5,50	93 x 57	1	12,70
6,00	93 x 57	1	12,80
6,50	101 x 63	1	14,63
7,00	109 x 69	1	16,48

Blister: 190x60 mm.

TK05B			
Ø mm	L ₁ x L ₂ mm		€
7,50	109 x 69	1	18,96
8,00	117 x 75	1	19,97
8,50	117 x 75	1	23,29
9,00	125 x 81	1	25,48
9,50	125 x 81	1	27,33
10,00	133 x 87	1	26,84
10,50	133 x 87	1	29,59
11,00	142 x 94	1	32,40
11,50	142 x 94	1	36,10
12,00	151 x 101	1	39,03
12,50	151 x 101	1	42,06
13,00	151 x 101	1	44,99

Blister: 230x60 mm.



TK05F			
Ø mm	L ₁ x L ₂ mm		€
1,00	34 x 12	1	5,23
1,50	40 x 18	1	5,38
2,00	49 x 24	1	5,57
2,50	57 x 30	1	6,36
3,00	61 x 33	1	6,63
3,20	65 x 36	1	7,20
3,50	70 x 39	1	7,78
4,00	75 x 43	1	9,08
4,20	75 x 43	1	9,65
4,50	80 x 47	1	9,92
5,00	76 x 52	1	11,42
5,50	93 x 57	1	12,03
6,00	93 x 57	1	12,13
6,50	101 x 63	1	13,96

TK05F			
Ø mm	L ₁ x L ₂ mm		€
6,80	109 x 69	1	14,85
7,00	109 x 69	1	15,81
7,50	109 x 69	1	18,30
8,00	117 x 75	1	19,08
8,50	117 x 75	1	22,40
9,00	125 x 81	1	24,59
9,50	125 x 81	1	26,44
10,00	133 x 87	1	25,96
10,20	133 x 87	1	27,36
10,50	133 x 87	1	28,15
11,00	142 x 94	1	31,28
11,50	142 x 94	1	33,88
12,00	151 x 101	1	36,81
12,50	151 x 101	1	39,62
13,00	151 x 101	1	42,56

Sob demanda, podemos dotar aos nossos blisters dum sistema anti-furto por eletromagnetismo com um custo adicional de 0,07 € pelo blister, que pode ser colocado em todas as peças ou aleatoriamente.


ESTOJOS DE BROCAS PARA METAL COM E SEM BLISTER
HSSCo 5%


Ref. BC5


 Cont. 19 Uds - Ø 1 - 10 x 0,50 mm.
PC010B 120,56 €

 Cont. 19 Uds - Ø 1 - 10 x 0,50 mm.
PC010 104,56 €

 Cont. 25 Uds - Ø 1 - 13 x 0,50 mm.
PC011B 278,80 €

 Cont. 25 Uds - Ø 1 - 13 x 0,50 mm.
PC011 245,22 €
Plus


Ref. BC02


 Cont. 19 Uds - Ø 1 - 10 x 0,50 mm.
PP010B 89,80 €

 Cont. 19 Uds - Ø 1 - 10 x 0,50 mm.
PP010 70,74 €

 Cont. 25 Uds - Ø 1 - 13 x 0,50 mm.
PP011B 172,43 €

 Cont. 25 Uds - Ø 1 - 13 x 0,50 mm.
PP011 146,35 €
HSS


Ref. BC2


 Cont. 19 Uds - Ø 1 - 10 x 0,50 mm.
P0010B 85,77 €

 Cont. 19 Uds - Ø 1 - 10 x 0,50 mm.
P0010 62,57 €

 Cont. 25 Uds - Ø 1 - 13 x 0,50 mm.
P0011B 153,33 €

 Cont. 25 Uds - Ø 1 - 13 x 0,50 mm.
P0011 130,18 €
HSSCo 5%

Plus

HSS

 Cont. 15 (Ref. BC5) HSSCo 5%
 Ø 1,5(x2) - 2(x2) - 2,5(x2) - 3 - 3,2 - 3,5 - 4 - 4,5 - 5 - 6 - 8 - 10mm
PC015B 71,60 €

 Cont. 15 (Ref. BC02) *Plus*
 Ø 1,5(x2) - 2(x2) - 2,5(x2) - 3 - 3,2 - 3,5 - 4 - 4,5 - 5 - 6 - 8 - 10mm
PP015B 51,06 €

 Cont. 15 (Ref. BC2) HSS
 Ø 1,5(x2) - 2(x2) - 2,5(x2) - 3 - 3,2 - 3,5 - 4 - 4,5 - 5 - 6 - 8 - 10mm
P0015B 46,08 €



EXPOSITOR DE BROCAS CABO CILINDRICO RETIFICADAS DIN 338



HSSCo
5%

BROCAS DE HSSCo EM BLISTER

Brocas BC5B

$\frac{11,00}{7}$	$\frac{11,50}{7}$	$\frac{12,00}{7}$	$\frac{13,00}{7}$	$\frac{14,00}{7}$
$\frac{9,00}{10}$	$\frac{9,50}{10}$	$\frac{10,00}{8}$	$\frac{10,25}{8}$	$\frac{10,50}{8}$
$\frac{6,75}{12}$	$\frac{7,00}{12}$	$\frac{7,50}{10}$	$\frac{8,00}{10}$	$\frac{8,50}{10}$
$\frac{5,00}{12}$	$\frac{5,50}{12}$	$\frac{5,75}{12}$	$\frac{6,00}{12}$	$\frac{6,50}{12}$
$\frac{3,30}{18}$	$\frac{3,50}{18}$	$\frac{4,00}{18}$	$\frac{4,20}{12}$	$\frac{4,50}{12}$
$\frac{1,00}{18}$	$\frac{1,50}{18}$	$\frac{2,00}{18}$	$\frac{2,50}{18}$	$\frac{3,00}{18}$



Ref. 1-60

3.711,52 €

Ref. BC5B



HSSCo
5%

BROCAS DE HSSCo EM CAPA

Brocas BC5F

$\frac{8,50}{12}$	$\frac{9,00}{12}$	$\frac{9,50}{6}$	$\frac{10,00}{12}$	$\frac{10,50}{6}$	$\frac{11,00}{10}$	$\frac{12,00}{10}$	$\frac{13,00}{6}$		
$\frac{5,00}{20}$	$\frac{5,25}{20}$	$\frac{5,50}{20}$	$\frac{5,75}{12}$	$\frac{6,00}{20}$	$\frac{6,50}{12}$	$\frac{6,75}{12}$	$\frac{7,00}{12}$	$\frac{7,50}{12}$	$\frac{8,00}{12}$
$\frac{1,00}{20}$	$\frac{1,50}{20}$	$\frac{2,00}{20}$	$\frac{2,50}{20}$	$\frac{3,00}{25}$	$\frac{3,25}{20}$	$\frac{3,50}{20}$	$\frac{4,00}{20}$	$\frac{4,25}{20}$	$\frac{4,50}{20}$



Ref. 1-52

3.231,54 €



Ref. BC5F



HSSCo
5%

BROCAS DE HSSCo EM CAIXA

Brocas BC5

$\frac{8,50}{10}$	$\frac{9,00}{20}$	$\frac{9,50}{10}$	$\frac{10,00}{20}$				
$\frac{6,00}{30}$	$\frac{6,50}{20}$	$\frac{7,00}{30}$	$\frac{7,50}{20}$	$\frac{8,00}{30}$			
$\frac{2,00}{50}$	$\frac{2,50}{50}$	$\frac{3,00}{50}$	$\frac{3,50}{50}$	$\frac{4,00}{50}$	$\frac{4,50}{50}$	$\frac{5,00}{50}$	$\frac{5,50}{30}$



Ref. 1-45

2.589,19 €



Ref. BC5



HSSCo
5%

BROCAS DE HSSCo EM CAIXA

Brocas BC5

$\frac{2,00}{100}$	$\frac{2,50}{50}$	$\frac{3,00}{100}$	$\frac{3,25}{30}$	$\frac{3,50}{30}$	$\frac{4,00}{100}$
$\frac{4,25}{30}$	$\frac{4,50}{30}$	$\frac{5,00}{100}$	$\frac{5,25}{20}$	$\frac{5,50}{30}$	$\frac{5,75}{30}$
$\frac{6,00}{50}$	$\frac{6,50}{20}$	$\frac{6,75}{20}$	$\frac{7,00}{30}$	$\frac{7,50}{20}$	$\frac{8,00}{30}$
$\frac{8,50}{10}$	$\frac{9,00}{30}$	$\frac{9,50}{10}$	$\frac{10,00}{30}$	$\frac{10,50}{10}$	
$\frac{11,00}{12}$	$\frac{11,50}{12}$	$\frac{12,00}{12}$	$\frac{12,50}{6}$	$\frac{13,00}{6}$	$\frac{14,00}{6}$



Ref. 3-3

5.403,18 €



Ref. BC5



EXPOSITOR DE BROCAS CABO CILINDRICO RETIFICADAS DIN 338

Plus
BROCAS HSS-G EM BLISTER
Brocas BC02B

$\frac{11,00}{7}$	$\frac{11,50}{7}$	$\frac{12,00}{7}$	$\frac{13,00}{7}$	$\frac{14,00}{7}$
$\frac{9,00}{10}$	$\frac{9,50}{10}$	$\frac{10,00}{8}$	$\frac{10,25}{8}$	$\frac{10,50}{8}$
$\frac{6,75}{12}$	$\frac{7,00}{12}$	$\frac{7,50}{10}$	$\frac{8,00}{10}$	$\frac{8,50}{10}$
$\frac{5,00}{12}$	$\frac{5,50}{12}$	$\frac{5,75}{12}$	$\frac{6,00}{12}$	$\frac{6,50}{12}$
$\frac{3,30}{18}$	$\frac{3,50}{18}$	$\frac{4,00}{18}$	$\frac{4,20}{12}$	$\frac{4,50}{12}$
$\frac{1,00}{18}$	$\frac{1,50}{18}$	$\frac{2,00}{18}$	$\frac{2,50}{18}$	$\frac{3,00}{18}$



515 mm
 330 mm (x2)
 360 mm

Ref. 1-61
 2.533,22 €

Ref. BC02B


Plus
BROCAS DE HSS-G EM CAPA
Brocas BC02F

$\frac{8,50}{12}$	$\frac{9,00}{12}$	$\frac{9,50}{6}$	$\frac{10,00}{12}$	$\frac{10,50}{6}$	$\frac{11,00}{10}$	$\frac{12,00}{10}$	$\frac{13,00}{6}$		
$\frac{5,00}{20}$	$\frac{5,25}{20}$	$\frac{5,50}{20}$	$\frac{5,75}{12}$	$\frac{6,00}{20}$	$\frac{6,50}{12}$	$\frac{6,75}{12}$	$\frac{7,00}{12}$	$\frac{7,50}{12}$	$\frac{8,00}{12}$
$\frac{1,00}{20}$	$\frac{1,50}{20}$	$\frac{2,00}{20}$	$\frac{2,50}{20}$	$\frac{3,00}{25}$	$\frac{3,25}{20}$	$\frac{3,50}{20}$	$\frac{4,00}{20}$	$\frac{4,25}{20}$	$\frac{4,50}{20}$



515 mm
 330 mm
 360 mm

Ref. 1-51
 2.191,06 €



Ref. BC02F


Plus
BROCAS DE HSS-G EM CAIXA
Brocas BC02

$\frac{8,50}{10}$	$\frac{9,00}{20}$	$\frac{9,50}{10}$	$\frac{10,00}{30}$				
$\frac{6,00}{40}$	$\frac{6,50}{20}$	$\frac{7,00}{30}$	$\frac{7,50}{20}$	$\frac{8,00}{30}$			
$\frac{2,00}{50}$	$\frac{2,50}{50}$	$\frac{3,00}{50}$	$\frac{3,50}{50}$	$\frac{4,00}{50}$	$\frac{4,50}{50}$	$\frac{5,00}{50}$	$\frac{5,50}{30}$



515 mm
 330 mm
 360 mm

Ref. 1-46
 1.710,93 €



Ref. BC02


Plus
BROCAS DE HSS-G EM CAIXA
Brocas BC02

$\frac{2,00}{100}$	$\frac{2,50}{50}$	$\frac{3,00}{100}$	$\frac{3,25}{50}$	$\frac{3,50}{50}$	$\frac{4,00}{100}$
$\frac{4,25}{50}$	$\frac{4,50}{50}$	$\frac{5,00}{100}$	$\frac{5,25}{50}$	$\frac{5,50}{50}$	$\frac{5,75}{50}$
$\frac{6,00}{50}$	$\frac{6,50}{50}$	$\frac{6,75}{20}$	$\frac{7,00}{50}$	$\frac{7,50}{30}$	$\frac{8,00}{40}$
$\frac{8,50}{20}$	$\frac{9,00}{40}$	$\frac{9,50}{20}$	$\frac{10,00}{40}$	$\frac{10,50}{10}$	
$\frac{11,00}{12}$	$\frac{11,50}{12}$	$\frac{12,00}{12}$	$\frac{12,50}{6}$	$\frac{13,00}{6}$	$\frac{14,00}{6}$



815 mm
 400 mm
 240 mm

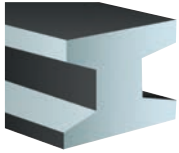
Ref. 3-2
 4.189,65 €



Ref. BC02



EXPOSITOR DE BROCAS CABO CILINDRICO RETIFICADAS DIN 338 EM BLISTER E CAPA

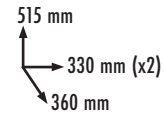


HSS

BROCAS DE HSS EM BLISTER

Brocas BC2B

$\frac{11,00}{7}$	$\frac{11,50}{7}$	$\frac{12,00}{7}$	$\frac{13,00}{7}$	$\frac{14,00}{7}$
$\frac{9,00}{10}$	$\frac{9,50}{10}$	$\frac{10,00}{8}$	$\frac{10,25}{8}$	$\frac{10,50}{8}$
$\frac{6,75}{12}$	$\frac{7,00}{12}$	$\frac{7,50}{10}$	$\frac{8,00}{10}$	$\frac{8,50}{10}$
$\frac{5,00}{12}$	$\frac{5,50}{12}$	$\frac{5,75}{12}$	$\frac{6,00}{12}$	$\frac{6,50}{12}$
$\frac{3,30}{18}$	$\frac{3,50}{18}$	$\frac{4,00}{18}$	$\frac{4,20}{12}$	$\frac{4,50}{12}$
$\frac{1,00}{18}$	$\frac{1,50}{18}$	$\frac{2,00}{18}$	$\frac{2,50}{18}$	$\frac{3,00}{18}$



Ref. 1-62

2.281,66 €

Ref. BC2B



HSS

BROCAS DE HSS EM CAPA

Brocas BC2F

$\frac{8,50}{12}$	$\frac{9,00}{12}$	$\frac{9,50}{6}$	$\frac{10,00}{12}$	$\frac{10,50}{6}$	$\frac{11,00}{10}$	$\frac{12,00}{10}$	$\frac{13,00}{6}$		
$\frac{5,00}{20}$	$\frac{5,25}{20}$	$\frac{5,50}{20}$	$\frac{5,75}{12}$	$\frac{6,00}{20}$	$\frac{6,50}{12}$	$\frac{6,75}{12}$	$\frac{7,00}{12}$	$\frac{7,50}{12}$	$\frac{8,00}{12}$
$\frac{1,00}{20}$	$\frac{1,50}{20}$	$\frac{2,00}{20}$	$\frac{2,50}{20}$	$\frac{3,00}{25}$	$\frac{3,25}{20}$	$\frac{3,50}{20}$	$\frac{4,00}{20}$	$\frac{4,25}{20}$	$\frac{4,50}{20}$



Ref. 1-50

1.925,77 €



Ref. BC2F



Plus

BROCAS DE HSS EM CAIXA

Brocas BC2

$\frac{8,50}{10}$	$\frac{9,00}{20}$	$\frac{9,50}{10}$	$\frac{10,00}{30}$				
$\frac{6,00}{40}$	$\frac{6,50}{30}$	$\frac{7,00}{30}$	$\frac{7,50}{30}$	$\frac{8,00}{30}$			
$\frac{2,00}{50}$	$\frac{2,50}{50}$	$\frac{3,00}{50}$	$\frac{3,50}{50}$	$\frac{4,00}{50}$	$\frac{4,50}{50}$	$\frac{5,00}{50}$	$\frac{5,50}{30}$



Ref. 1-44

1.604,85 €



Ref. BC2



Plus

BROCAS DE HSS EM CAIXA

Brocas BC2

$\frac{2,00}{100}$	$\frac{2,50}{50}$	$\frac{3,00}{100}$	$\frac{3,25}{50}$	$\frac{3,50}{50}$	$\frac{4,00}{100}$
$\frac{4,25}{50}$	$\frac{4,50}{50}$	$\frac{5,00}{100}$	$\frac{5,25}{50}$	$\frac{5,50}{50}$	$\frac{5,75}{50}$
$\frac{6,00}{50}$	$\frac{6,50}{50}$	$\frac{6,75}{20}$	$\frac{7,00}{50}$	$\frac{7,50}{30}$	$\frac{8,00}{40}$
$\frac{8,50}{20}$	$\frac{9,00}{40}$	$\frac{9,50}{20}$	$\frac{10,00}{40}$	$\frac{10,50}{10}$	
$\frac{11,00}{12}$	$\frac{11,50}{12}$	$\frac{12,00}{12}$	$\frac{12,50}{6}$	$\frac{13,00}{6}$	$\frac{14,00}{6}$



Ref. 3-1

3.750,76 €



Ref. BC2




EXPOSITORES DE BROCAS CABO REDUZIDO

HSSCo
 5%

BROCAS HSSCO CABO REDUZIDO EM BLISTER

Brocas BC99B

18,00	18,50	19,00	19,50	20,00
3	1	2	1	2
16,00	16,00	16,50	17,00	17,50
3	3	2	2	1
13,50	14,00	14,50	15,00	15,50
2	3	2	3	2

 615 mm
 ↙ ↘
 330 mm
 360 mm

Ref. 2-66

2.836,84 €



Ref. BC99B



Ref. BC99P


 515 mm
 ↙ ↘
 330 mm
 360 mm

Ref. 1-6

4.373,19 €


HSSCo
 5%

BROCAS HSSCO CABO REDUZIDO EMBALAGEM TELESCÓPICA

Brocas BC99P

17,50	18,00	18,00	18,50	19,00	19,00	19,50	20,00
2	2	2	2	2	2	2	2
15,50	16,00	16,00	16,00	16,00	16,50	17,00	17,00
2	2	2	2	2	2	2	2
13,50	14,00	14,00	14,00	14,50	15,00	15,00	15,00
2	3	3	2	2	2	2	2


HSS
BROCAS HSS CABO REDUZIDO EM BLISTER

Brocas BC9B

18,00	18,50	19,00	19,50	20,00
4	1	2	1	2
16,00	16,00	16,50	17,00	17,50
4	4	2	2	1
13,50	14,00	14,50	15,00	15,50
2	4	2	4	2

 615 mm
 ↙ ↘
 330 mm
 360 mm

Ref. 2-65

1.751,01 €



Ref. BC9B



Ref. BC9P


 515 mm
 ↙ ↘
 330 mm
 360 mm

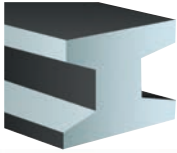
Ref. 1-3

3.044,84 €


HSS
BROCAS HSS CABO REDUZIDO EMBALAGEM TELESCÓPICA

Brocas BC9P

17,50	18,00	18,00	18,50	19,00	19,00	19,50	20,00
2	3	2	2	2	2	2	3
15,50	16,00	16,00	16,00	16,00	16,50	17,00	17,00
2	3	3	3	3	3	3	3
13,50	14,00	14,00	14,00	14,50	15,00	15,00	15,00
2	4	4	4	3	3	3	3



EXPOSITORES DE BROCAS CABO CILINDRICO RETIFICADAS DIN 338 EM BLISTER E CAPA

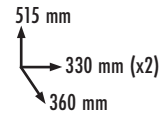


HSS
TiN

BROCAS HSS+TiN EM BLISTER

Brocas BC18B

11,00 7	11,50 7	12,00 7	13,00 7	14,00 7
9,00 10	9,50 10	10,00 8	10,25 8	10,50 8
6,75 12	7,00 12	7,50 10	8,00 10	8,50 10
5,00 12	5,50 12	5,75 12	6,00 12	6,50 12
3,30 18	3,50 18	4,00 18	4,20 12	4,50 12
1,00 18	1,50 18	2,00 18	2,50 18	3,00 18



Ref. 1-67

3.232,87 €

Ref. BC18B



HSS
TiN

BROCAS HSS+TiN EM CAPA

Brocas BC18F

8,50 12	9,00 12	9,50 6	10,00 12	10,50 6	11,00 10	12,00 10	13,00 6		
5,00 20	5,25 20	5,50 20	5,75 12	6,00 20	6,50 12	6,75 12	7,00 12	7,50 12	8,00 12
1,00 20	1,50 20	2,00 20	2,50 20	3,00 25	3,25 20	3,50 20	4,00 20	4,25 20	4,50 20



Ref. BC18F

Ref. 1-54

2.896,81 €



HSSCo
5%

INOX

BROCAS HSSCo 5% ANTI-SLIP EM BLISTER

Brocas BC95B

6,50 4	8,00 5	9,00 4	10,00 4	DC95314 4
4,20 3	4,50 5	5,00 5	5,50 5	6,00 5
1,00 5	2,00 5	3,00 5	3,20 3	4,00 5



Ref. 1-25

641,83 €



Ref. BC95B



HSSCo
5%

INOX

BROCAS HSSCo 5% ANTI-SLIP EM CAPA

Brocas BC95F

9,00 5	10,00 5	10,50 5	11,00 5	11,50 5	12,00 5	12,50 5	13,00 5	
4,50 10	5,00 10	5,50 10	6,00 10	6,50 10	6,80 10	8,00 10	8,50 5	
1,00 10	1,50 10	2,00 10	2,50 10	3,00 10	3,30 10	3,50 10	4,00 10	4,20 10



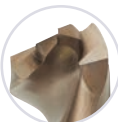
Ref. 1-34

2.115,13 €



Ref. BC95F



EXPOSITORES DE BROCAS CABO CILINDRICO RETIFICADAS DIN 338 EM BLISTER E CAPA


HSSCo 5% **DIN 338** BROCAS HSSCo 5% EM BLISTER

Brocas BTXB

10,00 4	11,00 4	12,00 4	13,00 4	PTX9314 4
6,00 5	6,50 4	7,00 4	8,00 5	9,00 4
3,00 5	4,00 5	4,50 5	5,00 5	5,50 4

TURBO

Ref. 1-59

827,19 €



Ref. BTXB



515 mm
330 mm
360 mm



Ref. BTXF

515 mm
330 mm
360 mm



TURBO

Ref. 1-43

938,41 €

HSSCo 5% **DIN 338** BROCAS HSSCo 5% EM CAPA

Brocas BTXF

10,00 5	10,20 2	10,50 2	11,00 2	11,50 2	12,00 2	12,50 2	13,00 2	
6,50 5	6,80 5	7,00 2	7,50 2	8,00 10	8,50 2	9,00 2	9,50 2	
3,00 10	3,30 5	3,50 5	4,00 10	4,20 5	4,50 5	5,00 10	5,50 5	6,00 10



HSS **DIN 338** BROCAS HSS EM BLISTER

Brocas TTXB

10,00 4	11,00 4	12,00 4	13,00 4	PTTX9314 4
6,00 5	6,50 4	7,00 4	8,00 5	9,00 4
3,00 5	4,00 5	4,50 5	5,00 5	5,50 4

TURBO

Ref. 1-36

783,68 €



Ref. TTXB



515 mm
330 mm
360 mm



Ref. TTXF

515 mm
330 mm
360 mm



TURBO

Ref. 1-20

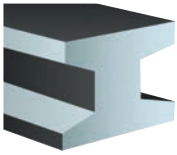
844,44 €

HSS **DIN 338** BROCAS HSS EM CAPA

Brocas TTXF

10,00 5	10,20 2	10,50 2	11,00 2	11,50 2	12,00 2	12,50 2	13,00 2	
6,50 5	6,80 5	7,00 2	7,50 2	8,00 10	8,50 2	9,00 2	9,50 2	
3,00 10	3,30 5	3,50 5	4,00 10	4,20 5	4,50 5	5,00 10	5,50 5	6,00 10

EXPOSITORES DE BROCAS CABO CILINDRICO RETIFICADAS DIN 338 EM BLISTER E CAPA



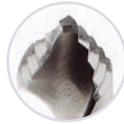
HSS

DIN 338

PERFURAÇÃO EM SUPERFÍCIES CURVADAS E INSTÁVEIS

Brocas TK02B

10,00 5	11,00 2	12,00 2	13,00 2	PTK029314 4
6,00 10	6,50 5	7,00 5	8,00 10	9,00 5
3,00 10	4,00 10	4,50 5	5,00 10	5,50 5



STEP CUT

Ref. 1-65

1.339,75 €



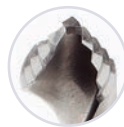
TK02B

515 mm
330 mm
360 mm



TK02F

515 mm
330 mm
360 mm



STEP CUT

Ref. 1-66

1.684,30 €



HSS

DIN 338

PERFURAÇÃO EM SUPERFÍCIES CURVADAS E INSTÁVEIS

Brocas TK02F

9,50 5	10,00 5	10,50 2	11,00 2	11,50 2	12,00 2	12,50 2	13,00 2	
5,50 5	6,00 10	6,50 5	7,00 5	7,50 5	8,00 10	8,50 5	9,00 5	
1,00 10	1,50 5	2,00 10	2,50 5	3,00 10	3,50 5	4,00 10	4,50 5	5,00 10



HSSCo 5%

DIN 338

PERFURAÇÃO EM SUPERFÍCIES CURVADAS E INSTÁVEIS

Brocas TK05B

10,00 5	11,00 2	12,00 2	13,00 2	PTK059314 4
6,00 10	6,50 5	7,00 5	8,00 10	9,00 5
3,00 10	4,00 10	4,50 5	5,00 10	5,50 4



STEP CUT

INOX

Ref. 1-91

1.628,55 €



TK05B

515 mm
330 mm
360 mm



TK05F

515 mm
330 mm
360 mm



STEP CUT

INOX

Ref. 1-92

2.060,63 €



HSSCo 5%

DIN 338

PERFURAÇÃO EM SUPERFÍCIES CURVADAS E INSTÁVEIS

Brocas TK02F

9,50 5	10,00 5	10,50 2	11,00 2	11,50 2	12,00 2	12,50 2	13,00 2	
5,50 5	6,00 10	6,50 5	7,00 5	7,50 5	8,00 10	8,50 5	9,00 5	
1,00 10	1,50 5	2,00 10	2,50 5	3,00 10	3,50 5	4,00 10	4,50 5	5,00 10



EXPOSITORES DE BROCAS HSSCo 8% E HSS SERIE LONGA CABO CILINDRICO



Ref. BC58F



515 mm
330 mm
360 mm



HSSCo 8%

BROCAS HSSCo 8% EM CAPA

Brocas BC58F

8,50 6	9,00 6	9,50 6	10,00 8	10,50 6	11,00 6	12,00 6	13,00 6		
5,00 10	5,25 10	5,50 10	5,75 6	6,00 10	6,50 6	6,75 6	7,00 6	7,50 6	8,00 6
1,00 10	1,50 10	2,00 10	2,50 10	3,00 10	3,25 10	3,50 10	4,00 10	4,25 10	4,50 10

Ref. 1-41

2.864,48 €



515 mm
330 mm
360 mm

Ref. BC4F

Ref. 1-19

2.970,05 €



HSS

DIN 340

BROCAS HSS SERIE LONGA EM CAPA

Brocas BC4F

8,50 12	9,00 12	9,50 6	10,00 12	10,50 6	11,00 10	12,00 10	13,00 6		
5,00 20	5,25 20	5,50 20	5,75 12	6,00 20	6,50 12	6,75 12	7,00 12	7,50 12	8,00 12
1,00 20	1,50 20	2,00 20	2,50 20	3,00 25	3,25 20	3,50 20	4,00 20	4,25 20	4,50 20



EXPOSITOR DE BROCAS E FRESAS ESPECIAIS PARA CHAVEIROS



BC5

HSSCo 5%



Form C

MD



BCC06

MD



BC7

PMD



BC98

PMD



BC85

MD



Form AE

MD

TiAlN



EXPOSITOR ESPECIAL DE SERRALHERIA

Brocas para metal HSSCo 5% ref: BC5B

3,00 4	4,00 4	5,00 4	6,00 4	8,00 4
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Fresas Forma C Cabo Ø 3 e Ø 6 mm em Blister

3x60 2	6x50 2	6x80 2	6x100 2	6x150 2
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Brocas ref: BCC06B / ref: BC7B / ref: BC98B / ref: BC85B e fresas Forma A/E em Blister

BCC06X60MDB 2	BC70600B 2	BC980600B 2	BC850600B 2	A60625-6EB 2
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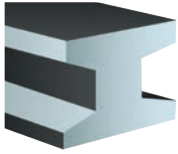
515 mm
330 mm
360 mm

Ref. 1-86

137,85 €

1.137,38 €





JOGOS DE MACHOS EM BLISTER



Ref. MOB	M	DIN 13	60°	HSS	M DIN 352	MF DIN 2181	TOL 6H
	MF						

				MOB	
			L1 x L2 x \square mm	€	
M3 x 0,50	3	2,50	40 x 11 x 2,7	25,08	
M4 x 0,70	3	3,30	45 x 13 x 3,4	25,06	
M5 x 0,80	3	4,20	50 x 16 x 4,9	26,88	
M6 x 1,00	3	5,00	50 x 19 x 4,9	26,88	
M8 x 1,25	3	6,75	56 x 22 x 4,9	32,19	
M10 x 1,50	3	8,50	70 x 24 x 5,5	39,13	
M12 x 1,75	3	10,25	75 x 29 x 7,0	54,09	
M14 x 2,00	3	12,00	80 x 30 x 9,0	59,58	

Blister: 165 x 105 mm.

DESANDADORES EM BLISTER



		GAB
		€
GA1B	M1 - M10	21,78
GA2B	M4 - M12	28,41

Blister GA1B: 75x285mm GA2B: 110x275mm

		TCB
		€
TC1B	M3 - M8	22,25
TC2B	M5 - M12	29,84

Blister: 165 x 105 mm.

EXPOSITOR DE JOGOS DE MACHOS EM BLISTER



515 mm
330 mm
360 mm

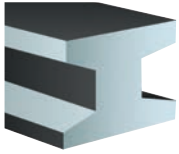
Ref. 1-78

3.789,08 €



JOGOS DE MACHOS EM BLISTER

Machos MOB		
M10 x 1,50 12	M12 x 1,75 12	M14 x 2,00 12
M6 x 1,00 12	M6 x 1,00 12	M8 x 1,25 12
M3 x 0,50 12	M4 x 0,70 12	M5 x 0,80 12

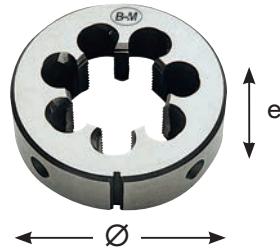


CAÇONETES PARA ROSCAGEM MANUAL EM BLISTER

Ref. C5B

M
MF

HSS

M
DIN 223
MF
DIN 223
TOL
6g


			C5B
		Ø x e mm	€
M3 x 0,50	1	25 x 9	32,90
M4 x 0,70	1	25 x 9	32,90
M5 x 0,80	1	25 x 9	32,90
M6 x 1,00	1	25 x 9	32,90
M8 x 1,25	1	25 x 9	34,61
M10 x 1,50	1	38 x 10	45,52
M12 x 1,75	1	38 x 10	49,25
M14 x 2,00	1	38 x 14	48,80

Blister: 165 x 105 mm.

DESANDADORES DE CAÇONETES EM BLISTER



Ref. VAB


DIN
225


		VAB
		€
VA25B	25	15,13
VA38B	38	22,54

Blister VA25B: 75x285mm VA38B: 110x275mm



515 mm
 330 mm
 360 mm

Ref. 1-79

4.111,83 €

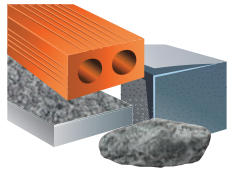
EXPOSITOR DE CAÇONETES EM BLISTER



CAÇONETES EM BLISTER

Caçonetes C5B

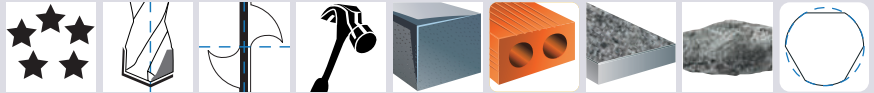
<u>M10 x 1,50</u> 12	<u>M12 x 1,75</u> 12	<u>M14 x 2,00</u> 12
<u>M6 x 1,00</u> 12	<u>M6 x 1,00</u> 12	<u>M8 x 1,25</u> 12
<u>M3 x 0,50</u> 12	<u>M4 x 0,70</u> 12	<u>M5 x 0,80</u> 12



BROCA SÉRIE EXTRA PROFSSIONAL PARA FURAR BETÃO COM PONTA DE METAL DURO



Ref. BW16B



BW16B			
Ø mm	L1 x L2 mm		€
4,00	75 x 38	2	10,75
5,00	85 x 45	1	5,43
6,00	100 x 55	1	6,00
7,00	100 x 64	1	6,91
Blister: 190x60 mm			

BW16B			
Ø mm	L1 x L2 mm		€
8,00	120 x 70	1	7,29
9,00	120 x 80	1	8,96
10,00	120 x 90	1	10,26
12,00	150 x 110	1	15,72
Blister: 230x60 mm			



BROCAS PARA CONSTRUÇÃO DIN 8039 EM BLISTER



Ref. BW6B



BW6B			
Ø mm	L1 x L2 mm		€
3,00	70 x 30	2	9,27
4,00	70 x 30	2	9,27
5,00	85 x 45	1	4,92
6,00	100 x 50	1	5,39
7,00	100 x 50	1	5,96
Blister: 190x60 mm			

BW6B			
Ø mm	L1 x L2 mm		€
8,00	120 x 70	1	6,28
9,00	120 x 70	1	7,71
10,00	120 x 70	1	8,83
11,00	150 x 80	1	11,50
12,00	150 x 80	1	13,55
13,00	150 x 80	1	16,37
14,00	150 x 80	1	19,80
Blister: 230x60 mm			

Aplicações: Betão sem hastes, Mármore, Granito, Ardósia, Todos os tipos de pedras

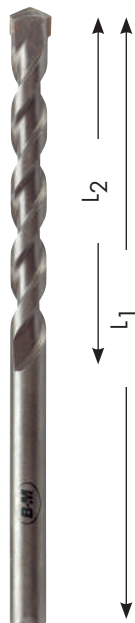
R.P.M. recomendadas:

MATERIAIS	Ø 3	Ø 5	Ø 8	Ø 10	Ø 12	Ø 13	Ø 14
Brando	3200	1900	1300	1100	900	800	700
Duro	2100	1200	900	700	600	500	400

BROCAS PARA CONSTRUÇÃO DIN 8039 EM BLISTER


Expositores

Cinza



Ref. BW1B

★★

DIN
8039

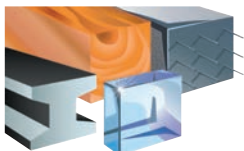
BW1B			
Ø mm	L ₁ x L ₂ mm		€
3,00	70 x 30	2	4,47
4,00	70 x 30	2	4,55
5,00	85 x 45	1	2,68
6,00	100 x 50	1	2,97
7,00	100 x 50	1	3,23
Blister: 190x60 mm			

BW1B			
Ø mm	L ₁ x L ₂ mm		€
8,00	120 x 70	1	3,41
9,00	120 x 70	1	3,93
10,00	120 x 70	1	4,17
11,00	150 x 80	1	6,10
12,00	150 x 80	1	7,08
13,00	150 x 80	1	8,10
14,00	150 x 80	1	10,36
Blister: 230x60 mm			

R.P.M. recomendadas:

MATERIAIS	Ø 3	Ø 5	Ø 8	Ø 10	Ø 12	Ø 13	Ø 14
Brando	3200	1900	1300	1100	900	800	700
Duro	2100	1200	900	700	600	500	400

Aplicações: Tijolo, Concreto, Uralita, Pedra, Areneito

BROCAS COM PONTA DE METAL DURO MULTIUSO PROFESSIONAL DIN 8039 EM BLISTER


Ref. BW8B

★★
★★DIN
8039

BW8B			
Ø mm	L ₁ x L ₂ mm		€
4,00	70 x 30	2	20,70
5,00	85 x 45	1	10,50
6,00	100 x 50	1	12,04
7,00	100 x 50	1	13,82
Blister: 190x60 mm.			

BW8B			
Ø mm	L ₁ x L ₂ mm		€
8,00	120 x 70	1	15,18
9,00	120 x 70	1	17,37
10,00	120 x 70	1	22,42
12,00	150 x 80	1	24,04
Blister: 230x60 mm.			

R.P.M. Recomendadas

MATERIAIS	Ø 3	Ø 5	Ø 8	Ø 10
Betão	1500	1300	900	800
Vidro	800	600	500	400
Aço	2000	1800	1000	600
Madeira	1600	1000	800	500
Porcelana	700	500	400	300
Plástico	2000	1200	750	550

Applications:

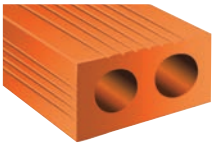


- Em percussão:
Betão, tijolo e pedra



- Em rotação:
Metal, cerâmica, madeira e plástico

BROCA PARA MARTELO SDS-PLUS COM DUPLO CANAL SÉRIE PROFISSIONAL EM BLISTER



Ref. W05B

W05B			
Ø mm	L ₁ x L ₂ mm		€
4x110	110 x 50	1	9,12
5x110	110 x 50	1	7,73
6x110	110 x 50	1	7,90
7x110	110 x 50	1	9,56
8x110	110 x 50	1	9,44
10x110	110 x 50	1	11,03
Blister: 190x60 mm			

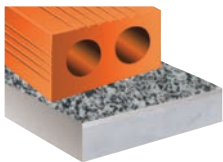
W05B			
Ø mm	L ₁ x L ₂ mm		€
5x160	160x100	1	9,31
6x160	160x100	1	8,75
7x160	160x100	1	11,46
8x160	160x100	1	10,07
10x160	160x100	1	11,54
12x160	160x100	1	12,86
14x160	160x100	1	20,20
Blister: 230x60 mm			

R.P.M. recomendadas:

MATERIAIS	Ø 3	Ø 5	Ø 8	Ø 10	Ø 12	Ø 14
Brando	3200	1900	1300	1100	900	700
Duro	2100	1200	900	700	600	400

Aplicações: Betão, material construção, mármore, granito, ardósia, todos os tipos de pedras.

Vantagens: Ponta auto-centrante. Maior velocidade e durabilidade. Mínima fricção devido à navalha estreita. Vida útil superior graças à reduzida fricção na ponta e nos canais. Maior rapidez de extração do pó do betão.



ESTOJOS DE BROCAS PARA CONSTRUÇÃO EM BLISTER



Cont.

15 (Ref. BW15) ★★★★★
Ø 3 (x3) - 4 (x3) - 5 (x3) - 6 (x2) - 8 (x2) - 10 (x2) mm.
BW159329B 116,45 €

15 (Ref. BW6) ★★★★★
Ø 3 (x3) - 4 (x3) - 5 (x3) - 6 (x2) - 8 (x2) - 10 (x2) mm.
BW69329B 72,15 €

15 (Ref. BW1) ★★
Ø 3 (x3) - 4 (x3) - 5 (x3) - 6 (x2) - 8 (x2) - 10 (x2) mm.
BW19329B 37,59 €

Sob demanda, podemos dotar aos nossos blisters dum sistema anti-furto por eletromagnetismo com um custo adicional do 0,07 € pelo blister, que pode ser colocado em todas as peças ou aleatoriamente.

EXPOSITORES DE BROCAS PARA CONSTRUÇÃO

BROCAS DELTA 3 PLUS EM BLISTER

Brocas BW35

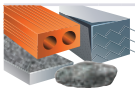
$\frac{5 \times 150}{6}$	$\frac{6 \times 150}{6}$	$\frac{8 \times 200}{5}$	$\frac{10 \times 200}{5}$	$\frac{12 \times 200}{5}$
$\frac{5,00}{8}$	$\frac{6,00}{8}$	$\frac{8,00}{8}$	$\frac{10,00}{5}$	$\frac{12,00}{5}$
$\frac{5,00}{8}$	$\frac{6,00}{8}$	$\frac{8,00}{8}$	$\frac{10,00}{5}$	$\frac{12,00}{5}$


**Delta
3 plus**


Ref. BW35B

Ref. 1-48

783,13 €

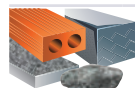
 615 mm
 330 mm
 360 mm

BROCAS BETÃO EXTRA PROFESSIONAL EM BLISTER

Brocas BW16

$\frac{BW169325}{5}$		$\frac{BW169327}{5}$		$\frac{BW169334}{5}$	
$\frac{7,00}{10}$	$\frac{8,00}{10}$	$\frac{9,00}{10}$	$\frac{10,00}{10}$	$\frac{12,00}{10}$	
$\frac{4,00}{10}$	$\frac{5,00}{10}$	$\frac{5,00}{10}$	$\frac{6,00}{10}$	$\frac{6,00}{10}$	

Ref. 1-58

943,84 €

 515 mm
 330 mm
 360 mm

BROCAS BETÃO EXTRA PROFESSIONAL EM CAPA

Brocas BW16

$\frac{10 \times 200}{3}$	$\frac{12 \times 200}{3}$	$\frac{BW169325}{5}$	$\frac{BW169327}{5}$	$\frac{BW169434}{5}$		
$\frac{16,00}{3}$	$\frac{5 \times 150}{5}$	$\frac{6 \times 150}{5}$	$\frac{8 \times 150}{5}$	$\frac{10 \times 150}{5}$	$\frac{6 \times 200}{3}$	$\frac{8 \times 200}{3}$
$\frac{4,00}{10}$	$\frac{5,00}{10}$	$\frac{6,00}{10}$	$\frac{8,00}{10}$	$\frac{10,00}{10}$	$\frac{12,00}{5}$	$\frac{14,00}{3}$

 515 mm
 330 mm
 360 mm

Ref. 2-32

1.237,50 €

EXPOSITORES DE BROCAS PARA CONSTRUÇÃO



BROCAS BETÃO PROFISSIONAL EM BLISTER

Brocas BW6B

$\frac{10,00}{10}$	$\frac{10,00}{10}$	$\frac{11,00}{7}$	$\frac{12,00}{7}$	$\frac{14,00}{7}$
$\frac{6,00}{15}$	$\frac{7,00}{15}$	$\frac{8,00}{10}$	$\frac{8,00}{10}$	$\frac{9,00}{10}$
$\frac{3,00}{18}$	$\frac{4,00}{18}$	$\frac{5,00}{15}$	$\frac{5,00}{15}$	$\frac{6,00}{15}$



Ref. 1-69

1.425,65 €



Ref. BW6B

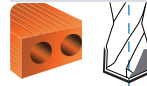


Ref. BW6



Ref. 1-4

1.940,44 €



BROCAS BETÃO PROFISSIONAL EM CAPA

Estojes BW6

<u>BW69318</u>	<u>BW69327</u>	<u>BW69328</u>	<u>BW69319</u>
4	4	4	4

Brocas BW6

$\frac{10,00}{8}$	$\frac{10,00}{8}$	$\frac{11,00}{6}$	$\frac{12,00}{6}$	$\frac{13,00}{4}$	$\frac{14,00}{4}$	$\frac{16,00}{4}$	$\frac{18,00}{4}$		
$\frac{3,00}{10}$	$\frac{4,00}{10}$	$\frac{5,00}{30}$	$\frac{5,00}{30}$	$\frac{6,00}{30}$	$\frac{6,00}{30}$	$\frac{7,00}{10}$	$\frac{8,00}{30}$	$\frac{8,00}{30}$	$\frac{9,00}{10}$



BROCAS BETÃO PROFISSIONAL EM CAPA

Brocas BW6

$\frac{5 \times 150}{5}$	$\frac{6 \times 150}{5}$	$\frac{6 \times 200}{5}$	$\frac{8 \times 200}{5}$	$\frac{10 \times 200}{5}$	$\frac{12 \times 200}{5}$	$\frac{14 \times 200}{2}$	$\frac{16 \times 200}{2}$	$\frac{18 \times 200}{2}$
$\frac{3,00}{10}$	$\frac{4,00}{10}$	$\frac{5,00}{50}$	$\frac{6,00}{50}$	$\frac{7,00}{10}$	$\frac{8,00}{50}$	$\frac{9,00}{10}$	$\frac{10,00}{8}$	$\frac{12,00}{6}$

Estojes BW6

<u>BW69318</u>	<u>BW69327</u>	<u>BW69328</u>	<u>BW69319</u>
4	4	4	4



Ref. 1-5

1.822,50 €



Ref. BW6



Ref. BW6



Ref. 2-6

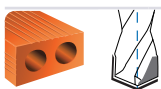
1.746,42 €



BROCAS BETÃO PROFISSIONAL EM CAPA

Brocas BW6

$\frac{6 \times 400}{3}$	$\frac{8 \times 400}{3}$	$\frac{10 \times 400}{3}$	$\frac{12 \times 400}{3}$	$\frac{14 \times 400}{3}$	$\frac{16 \times 400}{2}$	$\frac{18 \times 400}{2}$		
$\frac{5 \times 150}{5}$	$\frac{6 \times 150}{5}$	$\frac{6 \times 200}{5}$	$\frac{8 \times 200}{5}$	$\frac{10 \times 200}{5}$	$\frac{12 \times 200}{5}$	$\frac{14 \times 200}{2}$	$\frac{16 \times 200}{2}$	$\frac{18 \times 200}{2}$
$\frac{3,00}{10}$	$\frac{4,00}{10}$	$\frac{5,00}{50}$	$\frac{6,00}{50}$	$\frac{7,00}{10}$	$\frac{8,00}{50}$	$\frac{9,00}{10}$	$\frac{10,00}{8}$	$\frac{12,00}{6}$

EXPOSITORES DE BROCAS PARA CONSTRUÇÃO

BROCAS DE PAREDE EM BLISTER
Brocas BW1B

$\frac{10,00}{10}$	$\frac{10,00}{10}$	$\frac{11,00}{7}$	$\frac{12,00}{7}$	$\frac{14,00}{7}$
$\frac{6,00}{15}$	$\frac{7,00}{15}$	$\frac{8,00}{10}$	$\frac{8,00}{10}$	$\frac{9,00}{10}$
$\frac{3,00}{18}$	$\frac{4,00}{18}$	$\frac{5,00}{15}$	$\frac{5,00}{15}$	$\frac{6,00}{15}$

515 mm
 ↗ 330 mm
 ↘ 360 mm

Ref. 1-70

735,97 €



Ref. BW1B



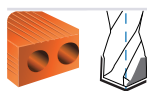
Ref. BW1



515 mm
 ↗ 330 mm
 ↘ 360 mm

Ref. 1-1

1.111,37 €


BROCAS DE PAREDE EM CAPA
Estojes BW1

<u>BW19318</u>	<u>BW19327</u>	<u>BW19328</u>	<u>BW19319</u>
4	4	4	4

Brocas BW1

$\frac{10,00}{8}$	$\frac{10,00}{8}$	$\frac{11,00}{6}$	$\frac{12,00}{6}$	$\frac{13,00}{4}$	$\frac{14,00}{4}$	$\frac{16,00}{4}$	$\frac{18,00}{4}$		
$\frac{3,00}{10}$	$\frac{4,00}{10}$	$\frac{5,00}{50}$	$\frac{5,00}{50}$	$\frac{6,00}{50}$	$\frac{6,00}{50}$	$\frac{7,00}{10}$	$\frac{8,00}{50}$	$\frac{8,00}{50}$	$\frac{9,00}{10}$

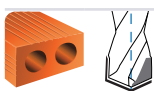
515 mm
 ↗ 330 mm
 ↘ 360 mm

Ref. 1-2

1.162,31 €



Ref. BW1


BROCAS DE PAREDE EM CAPA
Brocas BW1

$\frac{5 \times 150}{5}$	$\frac{6 \times 150}{5}$	$\frac{6 \times 200}{5}$	$\frac{8 \times 200}{5}$	$\frac{10 \times 200}{5}$	$\frac{12 \times 200}{5}$	$\frac{14 \times 200}{2}$	$\frac{16 \times 200}{2}$	$\frac{18 \times 200}{2}$
$\frac{3,00}{10}$	$\frac{4,00}{10}$	$\frac{5,00}{100}$	$\frac{6,00}{100}$	$\frac{7,00}{10}$	$\frac{8,00}{100}$	$\frac{9,00}{10}$	$\frac{10,00}{8}$	$\frac{12,00}{6}$

Estojes BW1

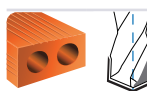
<u>BW19328</u>	<u>BW19327</u>	<u>BW19318</u>	<u>BW19319</u>
4	4	4	4



615 mm
 ↗ 330 mm
 ↘ 360 mm

Ref. 2-3

1.154,83 €


BROCAS DE PAREDE EM CAPA
Brocas BW1

$\frac{6 \times 400}{3}$	$\frac{8 \times 400}{3}$	$\frac{10 \times 400}{3}$	$\frac{12 \times 400}{3}$	$\frac{14 \times 400}{3}$	$\frac{16 \times 400}{2}$	$\frac{18 \times 400}{2}$		
$\frac{5 \times 150}{5}$	$\frac{6 \times 150}{5}$	$\frac{6 \times 200}{5}$	$\frac{8 \times 200}{5}$	$\frac{10 \times 200}{5}$	$\frac{12 \times 200}{5}$	$\frac{14 \times 200}{2}$	$\frac{16 \times 200}{2}$	$\frac{18 \times 200}{2}$
$\frac{3,00}{10}$	$\frac{4,00}{10}$	$\frac{5,00}{100}$	$\frac{6,00}{100}$	$\frac{7,00}{10}$	$\frac{8,00}{100}$	$\frac{9,00}{10}$	$\frac{10,00}{8}$	$\frac{12,00}{6}$



Ref. BW1

EXPOSITORES MISTOS DE BROCAS PARA PAREDE E BETÃO



EXPOSITOR BROCAS PARA PAREDE E BETÃO BW1, BW6 E BW16

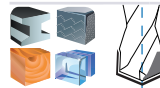
BW16	4,00 10	5,00 10	6,00 10	7,00 10	8,00 10	9,00 6	10,00 6	12,00 6	
BW6	3,00 10	4,00 10	5,00 30	6,00 30	7,00 10	8,00 30	9,00 10	10,00 8	12,00 6
BW1	3,00 10	4,00 10	5,00 30	6,00 30	7,00 10	8,00 30	9,00 10	10,00 8	12,00 6



Ref. 1-8
1.347,45 €

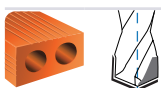


Ref. 1-12
1.675,44 €



EXPOSITOR BROCAS MISTO BW16, BW6 E BW8

BW6	3,00 10	4,00 10	5,00 15	6,00 15	7,00 10	8,00 10	9,00 10	10,00 8	12,00 6
BW16	4,00 10	5,00 10	6,00 10	7,00 10	8,00 10	9,00 8	10,00 8	12,00 6	
BW8	4,00 10	5,00 10	6,00 10	7,00 10	8,00 10	9,00 10	10,00 8	12,00 6	



ESTOJOS PARA PAREDE E BETÃO BW16, BW6 E BW1

BW16	BW169325 4	BW169327 4	BW169434 4	
BW6	BW69325 5	BW69327 5	BW69328 5	BW69434 5
BW1	BW19325 5	BW19327 5	BW19328 5	BW19434 5



Ref. 1-14
1.354,23 €

EXPOSITORES DE BROCAS PARA CONSTRUÇÃO

Expositores

Cinza
Rosa



Ref. BW9B



515 mm
330 mm
360 mm

Ref. 1-18

4.828,39 €



BROCAS PARA PORCELÂNICO EM BLISTER

Estojo de brocas BW9

	BW99325	BW99325	BW99318	BW99318
	4	4	4	4
Brocas BW9	$\frac{7,00}{3}$	$\frac{8,00}{10}$	$\frac{9,00}{6}$	$\frac{10,00}{6}$
	$\frac{3,00}{10}$	$\frac{4,00}{12}$	$\frac{5,00}{10}$	$\frac{6,00}{12}$



BW9

CPS

BW7



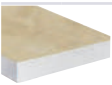
BW9



CPS



BW7



EXPOSITOR MISTO PARA PORCELÂNICO

BW7	$\frac{4,00}{3}$	$\frac{5,00}{5}$	$\frac{6,00}{5}$	$\frac{8,00}{3}$	$\frac{10,00}{2}$	Estojo	BW79325
							2
CPS	$\frac{5,00}{2}$	$\frac{6,00}{2}$	$\frac{8,00}{2}$	$\frac{10,00}{1}$		Guia centradora com refrigeração por água	CGB
							1
BW9	$\frac{4,00}{2}$	$\frac{5,00}{5}$	$\frac{6,00}{5}$	$\frac{8,00}{2}$	$\frac{10,00}{2}$		

515 mm
330 mm
360 mm

Ref. 1-49

947,92 €

11,08 €



BW7



CPS



CSE



BW7



CPS



CSE



515 mm
330 mm
360 mm

Ref. 1-27

897,03 €

936,13 €



EXPOSITOR MISTO PARA PORCELÂNICO

Brocas BW7

$\frac{4,00}{5}$	$\frac{5,00}{5}$	$\frac{6,00}{5}$	$\frac{8,00}{5}$	$\frac{10,00}{5}$	Estojo	BW79325
						2

Brocas CPS

$\frac{5,00}{3}$	$\frac{6,00}{3}$	$\frac{8,00}{3}$	$\frac{10,00}{3}$	$\frac{12,00}{3}$	Guia	CGB
						2

Fresa CSE

$\frac{20,00}{2}$	$\frac{25,00}{2}$	$\frac{30,00}{2}$	$\frac{35,00}{2}$	$\frac{50,00}{2}$	Adaptador	ADCSE
						2

EXPOSITOR DE BROCAS FURA TUDO PARA CONSTRUÇÃO



Ref. BW8B



Ref. 1-74
3.098,58 €



BROCAS FURA TUDO EM BLISTER

Brocas BW8B

9,00 10	10,00 10	10,00 10	12,00 7	12,00 7
6,00 15	7,00 15	7,00 15	8,00 10	8,00 10
4,00 18	4,00 18	5,00 15	5,00 15	6,00 15

EXPOSITOR DE BROCAS E FRESAS PARA VIDRO



BC90

BC70



Ref. BC90B



Ref. BC70B



BROCAS E FRESAS PARA VIDRO EM BLISTER

Fresas BC70B

16,00 3	18,00 3	20,00 3
10,00 3	12,00 3	14,00 3

Brocas BC90B

3,00 5	4,00 5	5,00 5	6,00 4	8,00 4
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Ref. 1-24

745,08 €



EXPOSITOR DE BROCAS SDS PARA CONSTRUÇÃO



Ref. W05B



Ref. 1-72

1.159,25 €



BROCAS SDS EM BLISTER

Brocas W05B

8x160 7	10x110 8	10x160 7	12x160 7	14x160 7
6x160 7	7x110 8	7x160 7	8x110 8	8x160 7
4x110 8	5x110 8	5x160 7	6x110 8	6x160 7

EXPOSITORES DE BROCAS SDS PARA CONSTRUÇÃO

Expositores

Cinza



GAMA W08 ATÉ 20 X 200 MM.

Brocas W08

6,5x200	8x200	10x200	12x200	14x200	15x250	16x200	18x200	20x200
3	5	5	3	3	3	2	2	2
6x160	6x160	8x160	10x160	12x160	14x160	15x160	5x200	6x200
5	5	5	5	3	3	3	5	5
4x110	5x110	5x110	6x110	6x110	8x110	10x110	4x160	5x160
5	5	5	5	5	5	5	5	5

Ref. 2-11

1.108,03 €



GAMA W05 ATÉ 20 X 200 MM.

Brocas W05

5x200	6x200	8x200	10x200	12x200	14x200	16x200	18x200	20x200
3	3	3	3	3	3	2	2	2
5x160	6x160	6x160	6,5x160	8x160	10x160	12x160	14x160	15x160
5	5	5	5	5	5	3	3	3
4x110	5x110	5x110	6x110	6x110	8x110	10x110	4x160	5x160
5	5	5	5	5	5	5	5	5

Ref. 2-12

1.131,95 €



GAMA W05 ATÉ 20 X 200 MM.

Brocas W05

7x200	8x200	9x200	10x200	12x200	14x200	16x200	18x200	20x200
3	3	3	3	3	3	2	2	2
6,5x160	7x160	8x160	9x160	10x160	12x160	14x160	15x160	5x200
5	5	5	5	5	3	3	3	3
4x110	5x110	6x110	7x110	8x110	10x110	4x160	5x160	5,5x160
8	8	8	8	8	8	8	8	8

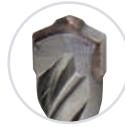


Ref. 2-19

1.481,34 €



EXPOSITORES DE BROCAS SDS PARA CONSTRUÇÃO



GAMA W05 ATÉ 20 X 450 MM.

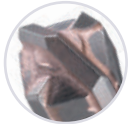
Brocas W05

14x300	16x300	18x300	20x300	10x450	12x450	14x450	16x450	18x450	20x450
2	2	2	2	2	2	2	2	2	2
6x200	8x200	10x200	12x200	14x200	16x200	18x200	20x200	10x300	12x300
5	5	5	5	5	5	2	2	3	3
5x110	6x110	8x110	10x110	5x160	6x160	8x160	10x160	12x160	14x160
10	10	10	10	10	10	10	5	5	5

Ref. 2-20

2.191,54 €

615 mm
330 mm
360 mm



GAMA W55 ATÉ 20 X 250 MM.

Brocas W55

6,5x210	8x210	10x210	12x200	14x200	16x250	18x250	20x250
2	2	2	2	2	2	2	2
6x160	6,5x160	8x160	10x160	12x160	14x160	5x210	6x210
5	5	5	5	3	3	2	2
5x110	5x110	6x110	6x110	8x110	10x110	5x160	6x160
5	5	5	5	5	5	5	5

Ref. 2-13

1.247,97 €

615 mm
330 mm
360 mm



BROCAS PARA FURAR BETÃO ARMADO W88 ATÉ 20 X 320 MM.

Brocas W88

14x270	16x270	8x320	10x320	12x320	14x320	16x320	18x320	20x320
2	2	2	2	2	2	2	2	1
8x220	10x220	12x220	14x220	16x220	6x270	8x270	10x270	12x270
3	3	2	2	2	3	3	3	2
6x120	8x120	10x120	6x170	8x170	10x170	12x170	14x170	6x220
5	5	5	5	5	3	3	2	3

Ref. 2-31

1.679,33 €

615 mm
330 mm
360 mm



EXPOSITORES DE BROCAS PARA CONSTRUÇÃO

Expositores

Cinza


BROCAS PARA FURAR BETÃO ARMADO W77 ATÉ 16 X 215 MM.

Brocas W77

$\frac{14 \times 165}{1}$	$\frac{15 \times 165}{1}$	$\frac{5 \times 215}{2}$	$\frac{6 \times 215}{2}$	$\frac{8 \times 215}{2}$	$\frac{10 \times 215}{2}$	$\frac{12 \times 215}{1}$	$\frac{14 \times 215}{1}$	$\frac{16 \times 215}{1}$
$\frac{6 \times 165}{5}$	$\frac{6,5 \times 165}{2}$	$\frac{7 \times 165}{1}$	$\frac{8 \times 165}{5}$	$\frac{9 \times 165}{1}$	$\frac{10 \times 165}{5}$	$\frac{11 \times 165}{1}$	$\frac{12 \times 165}{2}$	$\frac{13 \times 165}{1}$
$\frac{5 \times 115}{5}$	$\frac{5,5 \times 115}{2}$	$\frac{6 \times 115}{5}$	$\frac{6,5 \times 115}{2}$	$\frac{7 \times 115}{2}$	$\frac{8 \times 115}{5}$	$\frac{10 \times 115}{2}$	$\frac{5 \times 165}{5}$	$\frac{5,5 \times 165}{1}$

 615 mm
 ↗ 330 mm
 ↘ 360 mm

Ref. 2-28

1.080,84 €


BROCAS PARA FURAR BETÃO ARMADO W77 ATÉ 20 X 250 MM.

Brocas W77

$\frac{6 \times 215}{2}$	$\frac{8 \times 215}{2}$	$\frac{10 \times 215}{2}$	$\frac{12 \times 215}{2}$	$\frac{14 \times 215}{1}$	$\frac{15 \times 265}{1}$	$\frac{16 \times 215}{1}$	$\frac{18 \times 250}{1}$	$\frac{20 \times 250}{1}$
$\frac{6 \times 165}{3}$	$\frac{6 \times 165}{3}$	$\frac{6,5 \times 165}{2}$	$\frac{8 \times 165}{3}$	$\frac{10 \times 165}{3}$	$\frac{12 \times 165}{2}$	$\frac{14 \times 165}{2}$	$\frac{15 \times 165}{2}$	$\frac{5 \times 215}{2}$
$\frac{5 \times 115}{3}$	$\frac{5 \times 115}{3}$	$\frac{6 \times 115}{3}$	$\frac{6 \times 115}{3}$	$\frac{6,5 \times 115}{2}$	$\frac{8 \times 115}{3}$	$\frac{10 \times 115}{3}$	$\frac{5 \times 165}{3}$	$\frac{5 \times 165}{3}$

 615 mm
 ↗ 330 mm
 ↘ 360 mm

Ref. 2-26

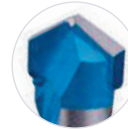
1.248,54 €

EXPOSITOR DE BROCAS FURA TUDO PARA CONSTRUÇÃO


W99



BW8


GAMA BW8 ATÉ 12 X 150 MM.
GAMA W99 ATÉ 16 X 260 MM.

Brocas BW8

$\frac{4 \times 70}{4}$	$\frac{5 \times 85}{4}$	$\frac{6 \times 100}{4}$	$\frac{8 \times 120}{4}$	$\frac{10 \times 120}{4}$	$\frac{12 \times 150}{3}$	$\frac{BW89325}{4}$
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Brocas W99

$\frac{6 \times 210}{2}$	$\frac{8 \times 210}{2}$	$\frac{10 \times 210}{2}$	$\frac{12 \times 210}{2}$	$\frac{12 \times 260}{2}$	$\frac{14 \times 260}{2}$	$\frac{16 \times 260}{2}$
$\frac{6 \times 110}{3}$	$\frac{8 \times 110}{3}$	$\frac{10 \times 110}{3}$	$\frac{6 \times 160}{3}$	$\frac{8 \times 160}{3}$	$\frac{10 \times 160}{3}$	$\frac{12 \times 160}{3}$

 615 mm
 ↗ 330 mm
 ↘ 360 mm

Ref. 2-33

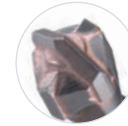
1.068,29 €



EXPOSITORES MISTOS PARA CONSTRUÇÃO: BROCAS AX, PUNTEIROS E CINZÉIS

Expositores

Cinza



GAMA AX ATÉ 30 X 320 MM.

Punteiros e cinzéis

P01280	P01400	P01600	C01280	C01400	C01600
2	2	2	2	2	2

Brocas AX

22x320	24x320	25x320	26x320	28x320	30x320
2	2	2	2	2	2
12x340	14x340	15x340	16x340	18x340	20x320
2	2	2	2	2	2

Ref. 2-23

3.414,37 €



Ref. 2-24

1.275,52 €



PUNTEIROS E CINZÉIS



Punteiros e cinzéis

P01280	P01400	P01600	C01280	C01400	C01600
2	2	2	2	2	2



Punteiros e cinzéis

C0150	C0175	C01115	CZ0150
2	2	2	2



Punteiros e cinzéis

P02250	P02250	C02250	C02250	CA02250	CZ02250
4	4	4	4	4	4



GAMA AX ATÉ 30 X 520 MM.

Punteiros e cinzéis

P01280	P01400	P01600	C01280	C01400	C01600
2	2	2	2	2	2

Brocas AX

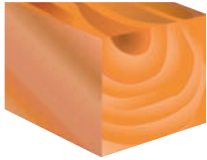
16x540	18x540	20x520	22x520	24x520	25x520	30x520
2	2	2	2	2	2	2
12x340	14x340	16x340	18x340	20x320	22x320	24x320
2	2	2	2	2	2	2



Ref. 2-22

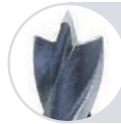
4.052,44 €




BROCAS PARA MADEIRA EM BLISTER

Expositores

Cinza





Ref. BMB



CV



BMB			
Ø mm	L ₁ x L ₂ mm		€
3,00	59 x 35	2	3,76
4,00	74 x 41	2	3,90
5,00	82 x 55	1	2,60
6,00	88 x 58	1	2,78
7,00	110 x 70	1	2,96
Blister: 190x60 mm			

BMB			
Ø mm	L ₁ x L ₂ mm		€
8,00	110 x 70	1	3,46
9,00	110 x 70	1	4,05
10,00	115 x 75	1	4,30
11,00	135 x 85	1	5,36
12,00	135 x 85	1	5,86
13,00	135 x 90	1	5,69
14,00	145 x 95	1	6,23
15,00	160 x 95	1	7,35
16,00	165 x 95	1	8,59
18,00	160 x 100	1	13,80
Blister: 282x60 mm			

R.P.M. recomendadas:

MADERA	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 11
Brando	2000	1500	1300	1250	1200	1000	850
Duro	1400	1300	1100	1000	750	700	600





Ref. BMRB



HSS



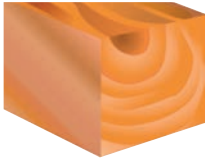
BMRB			
Ø mm	L ₁ x L ₂ mm		€
3,00	59 x 35	2	5,30
4,00	74 x 41	2	5,70
5,00	82 x 55	1	3,49
6,00	88 x 58	1	4,34
7,00	110 x 70	1	5,02
Blister: 190x60 mm			

BMRB			
Ø mm	L ₁ x L ₂ mm		€
8,00	110 x 70	1	5,94
9,00	110 x 70	1	7,19
10,00	115 x 75	1	7,15
11,00	135 x 85	1	8,47
12,00	135 x 85	1	9,33
13,00	135 x 90	1	9,98
14,00	145 x 95	1	10,94
15,00	160 x 95	1	13,49
16,00	165 x 95	1	16,03
18,00	160 x 100	1	22,02
Blister: 282x60 mm			

R.P.M. recomendadas:

MADERA	Ø 3	Ø 4	Ø 5	Ø 6	Ø 8	Ø 10	Ø 11
Brando	2000	1500	1300	1250	1200	1000	850
Duro	1400	1300	1100	1000	750	700	600

BROCAS PLANAS PARA MADEIRA EM BLISTER



Ref. BMPB



CV



	BMPB			
	Ø mm	L ₁ x L ₂ mm		€
Blister: 230x60 mm	6,00	150	1	4,38
	8,00	150	1	4,67
	10,00	150	1	5,05
	12,00	150	1	5,38
	13,00	150	1	6,19
	14,00	150	1	5,79
	15,00	150	1	6,31
	16,00	150	1	5,92
	17,00	150	1	6,37
	18,00	150	1	5,97

	BMPB			
	Ø mm	L ₁ x L ₂ mm		€
Blister: 230x60 mm	19,00	150	1	6,78
	20,00	150	1	6,44
	22,00	150	1	7,42
	24,00	150	1	8,00
	25,00	150	1	9,01
	26,00	150	1	9,36
	28,00	150	1	9,89
	30,00	150	1	10,65
	32,00	150	1	11,34
	34,00	150	1	13,73
	35,00	150	1	13,94
	36,00	150	1	13,24
	38,00	150	1	13,91
40,00	150	1	14,21	

R.P.M. recomendadas:

MADEIRA	Ø 6	Ø 14	Ø 20	Ø 28	Ø 38
Brando	1400	1100	850	700	550
Duro	700	550	400	350	300

Sob demanda, podemos dotar aos nossos blisters dum sistema anti-furto por eletromagnetismo com um custo adicional do 0,07 € pelo blister, que pode ser colocado em todas as peças ou aleatoriamente.



ESTOJOS DE BROCAS PARA MADEIRA EM BLISTER

CV



HSS



Cont.

15 (Ref. BM) CV	
Ø 3 (x3) - 3,5 (x2) - 4 (x2) - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 8 - 10 mm.	
BM9337B	38,11 €

15 (Ref. BMPR) HSS	
Ø 3 (x3) - 3,5 (x2) - 4 (x2) - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 8 - 10 mm.	
BMPR9337B	48,69 €

EXPOSITORES DE BROCAS PARA MADEIRA



CV

BROCAS PARA MADEIRA CV EM BLISTER

Brocas BMB

<u>13,00</u> 6	<u>14,00</u> 6	<u>15,00</u> 6	<u>16,00</u> 6	<u>18,00</u> 6
<u>8,00</u> 10	<u>9,00</u> 10	<u>10,00</u> 10	<u>11,00</u> 10	<u>12,00</u> 6
<u>3,00</u> 18	<u>4,00</u> 18	<u>5,00</u> 15	<u>6,00</u> 15	<u>7,00</u> 15

Ref. 1-76

719,86 €



Ref. BMB



515 mm
330 mm
360 mm



Ref. BM

Ref. 1-26

1.051,86 €

515 mm
330 mm
360 mm



CV

BROCAS PARA MADEIRA CV EM CAPA

Estojes de brocas BM

<u>BM9334</u> 4	<u>BM9333</u> 4	<u>BMPR9334</u> 4	<u>BMPR9333</u> 4
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Brocas BM

<u>12,00</u> 6	<u>13,00</u> 3	<u>14,00</u> 3	<u>15,00</u> 3	<u>16,00</u> 3	<u>18,00</u> 3	<u>20,00</u> 3	L1 standard.	
<u>3,00</u> 15	<u>4,00</u> 15	<u>5,00</u> 50	<u>6,00</u> 50	<u>7,00</u> 10	<u>8,00</u> 50	<u>9,00</u> 10	<u>10,00</u> 50	<u>11,00</u> 6



CV

BROCAS PARA MADEIRA CV EM CAPA

Brocas BM

L1 450 mm.

<u>8x450</u> 4	<u>10x450</u> 4	<u>12x450</u> 4	<u>14x450</u> 4	<u>16x450</u> 4	<u>18x450</u> 4	<u>20x450</u> 4
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L1 300 mm.

<u>5x300</u> 4	<u>6x300</u> 4	<u>7x300</u> 4	<u>8x300</u> 4	<u>9x300</u> 4	<u>10x300</u> 4	<u>12x300</u> 4	<u>14x300</u> 4	<u>16x300</u> 4
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L1 standard

<u>3,00</u> 15	<u>4,00</u> 15	<u>5,00</u> 50	<u>6,00</u> 50	<u>7,00</u> 10	<u>8,00</u> 50	<u>9,00</u> 8	<u>10,00</u> 50	<u>12,00</u> 6
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Ref. BM

Ref. 2-25

1.452,70 €



615 mm
330 mm
360 mm



BROCAS 4 PONTAS PARA MADEIRA EM CAPA

Brocas BM4P

<u>30,00</u> 2	<u>32,00</u> 2	<u>35,00</u> 2	<u>40,00</u> 2	
<u>22,00</u> 4	<u>24,00</u> 4	<u>25,00</u> 3	<u>28,00</u> 3	
<u>10,00</u> 5	<u>12,00</u> 5	<u>16,00</u> 5	<u>18,00</u> 4	<u>20,00</u> 4

515 mm
320 mm
360 mm

Ref. 1-81

1.791,51 €



Ref. BM4P



EXPOSITORES DE BROCAS PARA MADEIRA



HSS

BROCAS PARA MADEIRA HSS EM CAPA

Brocas BMPR

L1 400 mm.

6x400	8x400	10x400	12x400	14x400	16x400	18x400
3	3	3	3	3	3	3

L1 245 mm.

6x245	8x245	10x245	12x245	14x245	16x245	18x245
4	4	4	4	4	4	4

L1 standard.

3,00	4,00	5,00	6,00	7,00	8,00	9,00	10,00	12,00
12	12	15	15	10	10	10	8	6



Ref. 2-27

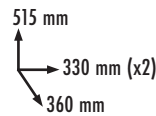
2.065,62 €



Ref. BMPR



Ref. BMPB



Ref. 1-75

2.612,12 €



BROCAS PLANAS PARA MADEIRA EM BLISTER

Brocas BMPB

6,00	8,00	10,00	12,00	12,00
12	12	12	12	12
14,00	14,00	15,00	16,00	16,00
12	12	12	12	12
17,00	18,00	18,00	19,00	20,00
12	12	12	12	12

Brocas BMPB

20,00	22,00	22,00	24,00	24,00
12	10	10	10	10
25,00	26,00	28,00	30,00	32,00
10	10	10	10	10
34,00	35,00	36,00	38,00	40,00
10	10	10	10	10



BROCAS PLANAS PARA MADEIRA EM CAPA

Brocas BMP

26,00	28,00	30,00	32,00	35,00	40,00		
20	15	15	10	10	10		
17,00	18,00	19,00	20,00	22,00	24,00	25,00	
3	20	3	20	20	20	20	
6,00	8,00	10,00	12,00	13,00	14,00	15,00	16,00
5	10	10	20	6	20	6	20



Ref. 1-28

1.720,75 €



Ref. BMP



HSS

BROCAS PARA MADEIRA HSS EM BLISTER

Brocas BMPRB

13,00	14,00	15,00	16,00	18,00
6	6	6	6	6
8,00	9,00	10,00	11,00	12,00
10	10	10	10	6
3,00	4,00	5,00	6,00	7,00
18	18	15	15	15

Ref. 1-77

1.169,10 €



Ref. BMPRB





ESTOJOS DE BROCAS HSS, BETÃO E MADEIRA EM BLISTER



P0705B

46

13 U.
Ø 2 - 8 x 0,5 mm.



HSS

DIN 338

⊕ 25 mm PH1 - PH2 - PH3

⊕ 50 mm PH1 - PH2

5 U.
Ø 4 - 5 - 6 - 8 - 10 mm.



DIN 8039



⊕ 25 mm PZ1 - PZ2 - PZ3

⊕ 50 mm PZ1 - PZ2

6 U.
Ø 3 - 4 - 5 - 6 - 8 - 10 mm.



CV



● 25 mm P0,6X4,5 - P0,8X5,5

● 50 mm P0,6X4,5

6 U.
Ø 10 - 12 - 16 - 18 - 22 - 24 mm.



1/4"



⊕ 25 mm T20 - T30

Ref. PMGX60 ○ ● 1/4"

96,20 €

P0706B

52

12 U. Ø 1,5 - 2 - 2,5 - 3 - 3,2 - 3,5 - 4 - 4,5 - 5 - 6 - 8 - 10 mm.



HSS

DIN 338

⊕ 25 mm PH1 - PH2 - PH3

⊕ 50 mm PH1 - PH2

11 U. Ø 3 - 4 - 4,5 - 5 - 5,5 - 6 - 6,5 - 7 - 8 - 9 - 10 mm.



DIN 8039



⊕ 25 mm PZ1 - PZ2 - PZ3

⊕ 50 mm PZ1 - PZ2

10 U. Ø 3 (x2) - 4 (x2) - 5 - 6 - 7 - 8 - 9 - 10 mm.



CV



● 25 mm P0,6X4,5 - P0,8X5,5

● 50 mm P0,6X4,5

● 1/4" • 3 U. 6-8-10 x 48 mm

Ref. PMGX60 ○ ● 1/4"

99,24 €

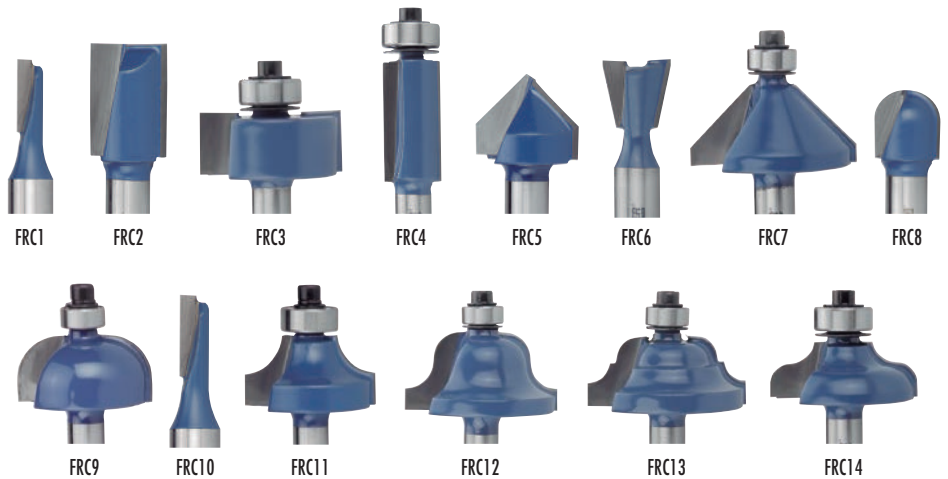
EXPOSITOR DE FRESAS DE METAL DURO PARA MADEIRA



Ref. 1-90

1.315,58 €

515 mm
330 mm
360 mm



MD



FRESAS DE METAL DURO PARA MADEIRA

Fresas FRC

<u>FRC10500</u> 2	<u>FRC10600</u> 2	<u>FRC10800</u> 2	<u>FRC11000</u> 2	<u>FRC21600</u> 2	<u>FRC21800</u> 2	<u>FRC22000</u> 2
<u>FRC32860</u> 2	<u>FRC41270</u> 2	<u>FRC51900</u> 2	<u>FRC61270</u> 2	<u>FRC73200</u> 2	<u>FRC81270</u> 2	
<u>FRC92850</u> 1	<u>FRC103180</u> 1	<u>FRC113180</u> 1	<u>FRC123500</u> 1	<u>FRC133500</u> 1	<u>FRC143810</u> 1	



EXPOSITORES MISTOS DE BROCAS PARA METAL, MADEIRA E BETÃO






515 mm
330 mm
360 mm

Ref. 1-82

730,78 €






EXPOSITOR MISTO QUALIDADE STANDARD

 BW1	3,00 10	4,00 10	5,00 15	6,00 15	8,00 10	10,00 10	Estojos	<u>BW19325</u> 5		
 BM	3,00 10	4,00 10	5,00 10	6,00 10	8,00 10	10,00 10	Estojos	<u>BM9334</u> 5		
 BC2	3,00 10	3,50 10	4,00 10	4,50 5	5,00 20	5,50 5	6,00 20	6,50 10	8,00 10	10,00 5



EXPOSITOR MISTO QUALIDADE PROFSSIONAL

 BW6	3,00 10	4,00 10	5,00 10	6,00 15	8,00 10	10,00 5	Estojos	<u>BW69325</u> 5		
 BMPR	3,00 10	4,00 10	5,00 10	6,00 10	8,00 10	10,00 5	Estojos	<u>BMPR9334</u> 3		
 BC5	3,00 5	3,50 5	4,00 10	4,50 5	5,00 10	5,50 5	6,00 10	6,50 5	8,00 10	10,00 5

515 mm
330 mm
360 mm

Ref. 1-83

1.041,86 €



EXPOSITORES DE SERRAS CRANEANAS EM BLISTER

Expositores

Rosa



Ref. CB

HSS
M3

4/6



ADAPTADORES EXPOSITOR DE SERRAS CRANEANAS BLUEMASTER

B5519S	CB16B	CB19B	CB20B	CB22B	CB25B	CB27B	CB30B
Ø 14-30	Ø 16	Ø 19	Ø 20	Ø 22	Ø 25	Ø 27	Ø 30
5	3	3	3	3	3	3	3
B5546S	CB32B	CB35B	CB40B	CB48B	CB50B	CB60B	CB68B
Ø32-210	Ø 32	Ø 35	Ø 40	Ø 48	Ø 50	Ø 60	Ø 68
4	3	3	2	2	2	2	2

Ref. CBEXP1B

787,33 €

530 mm
↑
885 mm

Ref. COB

HSSCo
8%

4/6



ADAPTADORES EXPOSITOR DE SERRAS CRANEANAS HSSCo 8% BLUEMASTER

B5519S	COB16B	COB19B	COB20B	COB22B	COB25B	COB27B	COB30B
Ø 14-30	Ø 16	Ø 19	Ø 20	Ø 22	Ø 25	Ø 27	Ø 30
5	3	3	3	3	3	3	3
B5546S	COB32B	COB35B	COB40B	COB48B	COB51B	COB60B	COB68B
Ø32-210	Ø 32	Ø 35	Ø 40	Ø 48	Ø 51	Ø 60	Ø 68
4	3	3	2	2	2	2	2

Ref. COBEXP1B

809,58 €

530 mm
↑
885 mm

Ref. MGB



ADAPTADORES EXPOSITOR DE FRESAS MASTER-GRIT

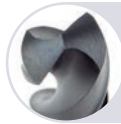
B5519-CMS	B8537S	MG19B	MG20B	MG22B	MG25B	MG29B	MG32B
Ø 14-30	Broca Guia	Ø 19	Ø 20	Ø 22	Ø 25	Ø 29	Ø 32
5	6	3	3	3	3	3	3
B5546-CMS	MG35B	MG38B	MG44B	MG48B	MG51B	MG60B	MG70B
Ø32-210	Ø 35	Ø 38	Ø 44	Ø 48	Ø 51	Ø 60	Ø 70
3	3	2	2	2	2	2	2

Ref. REMEXPB

990,04 €

530 mm
↑
885 mm

BROCAS COM CABO SEXTAVADO 1/4" EM BLISTER



Ref. BH2B



DIN 338

HSS



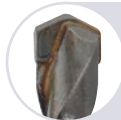
OX

70 Kg/mm²

R.P.M. recomendadas:

METAL	Ø 2	Ø 4	Ø 6	Ø 8	Ø 10	Ø 12
Brando	3000	1600	950	800	630	450
Meio	2200	1200	725	625	490	375
Duro	1400	800	500	450	350	300

		BH2B			
	Ø mm	L ₁ x L ₂ mm			€
190x60 mm.	3,00	61 x 33	1/4"	1	8,58
	4,00	75 x 43	1/4"	1	9,95
	5,00	86 x 52	1/4"	1	12,38
	6,00	93 x 57	1/4"	1	13,37
	7,00	109 x 69	1/4"	1	16,84
	8,00	117 x 75	1/4"	1	18,92
230x60	9,00	125 x 81	1/4"	1	21,29
	10,00	133 x 87	1/4"	1	23,70



Ref. BWHB



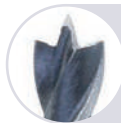
DIN 8039



R.P.M. recomendadas:

METAL	Ø 3	Ø 5	Ø 8	Ø 10	Ø 12	Ø 13	Ø 14
Brando	3200	1900	1300	1100	900	800	700
Duro	2100	1200	900	700	600	500	400

		BWHB			
	Ø mm	L ₁ x L ₂ mm			€
190x60 mm.	3,00	70x30	1/4"	1	4,06
	4,00	70x30	1/4"	1	4,39
	5,00	85x45	1/4"	1	4,75
	6,00	100x50	1/4"	1	5,29
	7,00	100x50	1/4"	1	6,20
	8,00	120x70	1/4"	1	7,18
230x60 mm.	9,00	120x70	1/4"	1	8,60
	10,00	120x70	1/4"	1	9,63
	11,00	150x80	1/4"	1	11,98
	12,00	150x80	1/4"	1	13,55
	13,00	150x80	1/4"	1	16,66
	14,00	150x80	1/4"	1	19,41



Ref. BMHB



CV



R.P.M. recomendadas:

METAL	Ø 3	Ø 5	Ø 8	Ø 10	Ø 12	Ø 13	Ø 14
Brando	2000	1500	1300	1250	1200	1000	850
Duro	1400	1300	1100	1000	750	700	600

		BMHB			
	Ø mm	L ₁ x L ₂ mm			€
190x60 mm.	3,00	59 x 35	1/4"	1	3,30
	4,00	74 x 41	1/4"	1	3,50
	5,00	82 x 55	1/4"	1	3,45
	6,00	88 x 58	1/4"	1	4,67
	7,00	110 x 70	1/4"	1	5,28
	8,00	110 x 70	1/4"	1	5,50
230x60 mm.	9,00	110 x 70	1/4"	1	5,71
	10,00	115 x 75	1/4"	1	6,32
	11,00	135 x 85	1/4"	1	7,38
	12,00	135 x 85	1/4"	1	8,66
	13,00	135 x 90	1/4"	1	13,56
	14,00	145 x 95	1/4"	1	16,86

EXPOSITORES DE BITS PARA PARAFUSOS E PORTA-BITS


820 mm
 400 mm
 220 mm

Plus

Ref. 5-1

1.088,10 €

CAIXAS DE BITS PARA PARAFUSOS DE 2 PEÇAS

⊕ 25 mm	PH1-2 5	PH2-2 5	PH3-2 5		⊕ 50 mm	PH1X50-2 5	PH2X50-2 5	PH3X50-2 5
⊕ 25 mm	PZ1-2 5	PZ2-2 5	PZ3-2 5		⊕ 50 mm	PZ1X50-2 5	PZ2X50-2 5	PZ3X50-2 5
⊕ 25 mm	PT10-2 5	PT15-2 5	PT20-2 5	PT25-2 5	PT30-2 5	PT40-2 5		
⊕ 50 mm	PT10X50-2 5	PT15X50-2 5	PT20X50-2 5	PT25X50-2 5	PT30X50-2 5	PT40X50-2 5		
○ 25 mm	PHX2-2 5	PHX4-2 5	PHX6-2 5	PHX8-2 5				
● 25 mm	P0,6X4,5-2 5	P0,8X5,5-2 5	P1,2X6,5-2 5					

Ref. PMGX51 (x5) · Ref. PMGSDSX78 (x5) Porta-bits magnético

Ref. PCRX74 (x5) Porta-bits magnético com mudança rápida

Ref. PCTX60 (x5) Porta-bits magnético com colarinho



820 mm
 400 mm
 220 mm

Plus

Ref. 5-2

1.882,60 €

CAIXAS DE BITS PARA PARAFUSOS DE 5 PEÇAS

⊕ 25 mm	PH1-5 5	PH2-5 5	PH3-5 5		⊕ 50 mm	PH1X50-5 5	PH2X50-5 5	PH3X50-5 5
⊕ 25 mm	PZ1-5 5	PZ2-5 5	PZ3-5 5		⊕ 50 mm	PZ1X50-5 5	PZ2X50-5 5	PZ3X50-5 5
⊕ 25 mm	PT10-5 5	PT15-5 5	PT20-5 5	PT25-5 5	PT30-5 5	PT40-5 5		
⊕ 50 mm	PT10X50-5 5	PT15X50-5 5	PT20X50-5 5	PT25X50-5 5	PT30X50-5 5	PT40X50-5 5		
○ 25 mm	PHX2-5 5	PHX4-5 5	PHX6-5 5	PHX8-5 5				
● 25 mm	P0,6X4,5-5 5	P0,8X5,5-5 5	P1,2X6,5-5 5					

Ref. PMGX51 (x5) · Ref. PMGSDSX78 (x5) Porta-bits magnético

Ref. PCRX74 (x5) Porta-bits magnético com mudança rápida

Ref. PCTX60 (x5) Porta-bits magnético com colarinho



820 mm
 400 mm
 220 mm

Plus

Ref. 5-3

1.383,97 €

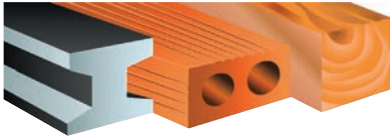
CAIXAS DE BITS PARA PARAFUSOS DE 2 E 5 PEÇAS

⊕ 25 mm	PH1-5 5	PH2-5 5	PH3-5 5		⊕ 50 mm	PH1X50-2 5	PH2X50-2 5	PH3X50-2 5
⊕ 25 mm	PZ1-5 5	PZ2-5 5	PZ3-5 5		⊕ 50 mm	PZ1X50-2 5	PZ2X50-2 5	PZ3X50-2 5
⊕ 25 mm	PT10-5 5	PT15-5 5	PT20-5 5	PT25-5 5	PT30-5 5	PT40-5 5		
⊕ 50 mm	PT10X50-2 5	PT15X50-2 5	PT20X50-2 5	PT25X50-2 5	PT30X50-2 5	PT40X50-2 5		
○ 25 mm	PHX2-5 5	PHX4-5 5	PHX6-5 5	PHX8-5 5				
● 25 mm	P0,6X4,5-5 5	P0,8X5,5-5 5	P1,2X6,5-5 5					

Ref. PMGX51 (x5) · Ref. PMGSDSX78 (x5) Porta-bits magnético

Ref. PCRX74 (x5) Porta-bits magnético com mudança rápida

Ref. PCTX60 (x5) Porta-bits magnético com colarinho



EXPOSITORES MISTOS DE BROCAS COM CABO SEXTAVADO 1/4"



Ref. BH2B Ref. BWHB Ref. BMHB



BH2



BWH



BMH



BROCAS PARA BETÃO E MADEIRA

Estojo

	BWH	BWH9318	BWH9327		BMH	BMH9335	BMH9333
		4	4			4	4

Brocas em blister

	BMHB	4,00	5,00	6,00	8,00	10,00
		8	10	10	8	5
	BWHB	4,00	5,00	6,00	8,00	10,00
		8	10	10	8	5



Ref. 1-38
804,66 €

515 mm
330 mm
360 mm



515 mm
330 mm
360 mm

Ref. 1-39
1.208,86 €



BROCAS PARA METAL, BETÃO E MADEIRA

	BH2B	4,00	5,00	6,00	8,00	10,00
		10	10	10	10	10
	BWHB	4,00	5,00	6,00	8,00	10,00
		8	10	10	8	5
	BMHB	4,00	5,00	6,00	8,00	10,00
		8	10	10	8	5



BROCAS PARA METAL E BETÃO

Estojo

	BWH	BWH9318	BWH9327		BH2	BH29335	BH29333
		4	4			4	4

Brocas em blister

	BH2B	4,00	5,00	6,00	8,00	10,00
		10	10	10	10	10
	BWHB	4,00	5,00	6,00	8,00	10,00
		8	10	10	8	5

Ref. 1-40
1.726,85 €

515 mm
330 mm
360 mm



EXPOSITOR MISTO BROCAS ESCAREADORAS



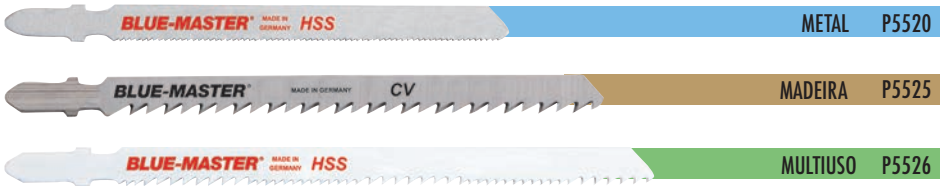
HSS BROCAS ESCAREADORAS E ESCALONADAS DE DUPLO CORTE

Brocas escareadoras			
AV30	<u>AV30BM0</u> 4	<u>AV30BM1</u> 4	<u>AV30BM2</u> 4
Brocas escalonadas			
AV40	<u>AV40BM5</u> 4	<u>AV40BM8</u> 4	<u>AV40BM9</u> 4
AV40	<u>AV40BM2</u> 4	<u>AV40BM3</u> 4	<u>AV40BM4</u> 4

Ref. 1-47
2.874,28 €

515 mm
330 mm
360 mm

EXPOSITOR MISTO DE FOLHAS DE SERRA TICO-TICO



FOLHAS DE SERRA TICO-TICO MISTAS

5 Folhas de serra Tico-Tico em blister

<u>P5525</u> 10	<u>P5526</u> 10	<u>P5509</u> 10	<u>P5519</u> 10
<u>P5505</u> 10	<u>P5516</u> 10	<u>P5520</u> 10	<u>P5522</u> 10
<u>P5501</u> 10	<u>P5502</u> 10	<u>P5503</u> 10	<u>P5504</u> 10

Ref. 1-33
1.426,59 €

515 mm
330 mm
360 mm



EXPOSITOR FRESAS HA E ADAPTADORES



515 mm
330 mm
360 mm

Ref. 1-101
1.624,88 €

SDS Plus FRESAS HA E ADAPTADORES

<u>82</u> 1	<u>68</u> 1	<u>HA11x370</u> 3	<u>HA370SDS</u> 3
<u>68</u> 1	<u>50</u> 2	<u>40</u> 2	<u>HA220SDS</u> 3
<u>35</u> 2	<u>30</u> 2	<u>25</u> 2	<u>HA8X120</u> 10
			<u>HA105SDS</u> 3

Expositores
Rosa